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## NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

APPENDIX C2
WBS INDEX
REVISION

31 March 1982

# NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

APPENDIX C2
WBS INDEX
REVISION

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31 March 1982

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### APPENDIX C2 WBS INDEX

As now edited, this revised WBS Index reflects the correct level 5 WBS elements for our BAFO baseline bid package. Adjustments are of four types:

- (1) Some level 5 WBS elements which were erroneously omitted, have been added.
- (2) Some level 5 (and level 6) WBS elements have been marked reserved where it was determined that they were not required for the basic bid; no Appendix C1 data sheets exist for these.
- (3) In a few instances, costs intended to go into one level 5 element were erroneously budgeted in another WBS element. These instances are appropriately identified.
- (4) In a few instances, a level 5 WBS element contains only purchase, computer, or travel cost and no labor costs. These instances are now annotated in the Index; no Appendix C1 data sheets exist for these.

	wo	OR K	В	RE,	AKI	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT					RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1				BR	EAKDOWN STRUCTURE ELEMENTS/	<b>TASKS</b>	WBS CODE NO.	DES/DEV	MANUF	TEST	-   1	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Х	x				D/C Segment		140000							
		ĥ	х			Project Management Project Management			X X				0001		
İ			×			Project Management		441100	х				0001		
				х		Provide Project Management Level)	(2d & 3d	541100	Х				0001		
					х	Provide Project Management Level) Including NDPO Inte	(2d & 3d rface - BOC	641100	Х				0001		
					х	Provide Project Management Level) Including NDPO Inte	(2d & 3d rface - IOC	641101	х				0001		
					х	Provide Project Management Level) Including NDPO Inte	(2d & 3d rface - FOC	641102	X				0001		
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	w	ORK	< BR	EAK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT			_	RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE	o N	_	WOR		EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	ES	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
İ			х		Project Control		341200	х			0001		
			x		Project Control		441200	x			0001		
1.				х	Project Control		541200	х			0001		
				X	Monitor, Control and Repor Status - BOC	t Schedule	641200	х			0001		
				Х	Monitor, Control and Repor Status - IOC	t Schedule	641201	х			0001		
				Х	Monitor, Control and Repor Status - FOC	t Schedule	641202	х			0001		
				Х	Monitor, Control and Repor	t Cost Status	641203	х			0001		
				Х		t Cost Status	641204	х			0001		
	Ì			Х		t Cost Status	641205	х			0001		
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	wo	RKI	BRE	AKD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Ī			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11	W(			EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Χ			Quality Assurance		341300	Х			0001		
			x x		Quality Assurance  Provide & Implement Qualit	tu Assur Dlan	441300 541300	X X			0001		
				X	Provide Quality Assurance		641300	X			0001		
				х	Implement Software Quality	y Assurance	641301	x			0001		
				х	Implement Software Quality - IOC	y Assurance	641302	х			0001		
				X	Implement Software Quality - FOC		641303	Х			0001		
				X	<pre>Implement Hardware Quality - BOC Implement Hardware Quality</pre>	•	641304 641305	X X			0001		
				X	- IOC Implement Hardware Quality	,	641306	X			0001		
				х	- FOC Monitor Subcontractor Qual - BOC	lity Assurance	641307	х			0001		
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	w	OF	RK BREAKDOWN STRUCTURE INDEX			TURE INDEX	PROGRAM NP	IC D/C SEGME	NT				RFP NO. <u>82-B</u> CONTRACT N			DATE: 2-24-82				
LINE NO.		11:	WORK BREAKDOWN STRUCTURE ELEMENTS/TA							RUCTURE ELEMENTS	/TASKS	WBS CODE NO.		ES/DEV	MANUF	rest	CONTRACT LINE ITEM	SOW PAR NO.	A.	SPECIFICATION NUMBER
Ž			2 3	4	5	K	N -	- IOC Monitor - FOC	5	Subcontractor Qua	lity Assurance	641308 641309 641310		X X X DEC	MA	TES	0001 0001 0001	NO.		

	WOR	КВІ	REA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D <b>/</b> C SEGMENT	-			RFP NO. <u>82-B-</u> CONTRACT N	:	DATE: 2-24-82
LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		х			Configuration Management		341400	х	1		0001		
		k			Configuration Management		441400	х			0001		
			Х		Provide Config. Mgmt. of Procedures and Documentat & Contractor CM Plans	HW, SW, ion Per NDPO	541400	Х			0001		
				x	Prepare and Maintain CM Procedures and Documentat		641400	х			0001		
				х	Prepare Eng'g Change Notic and Other CM Related Docum	ces/Requests ments - BOC	641401	х			0001		
				х	Prepare Eng'g Change Notic and Other CM Related Docum	ces/Requests ments - IOC	641402	х			0001		
				X	Prepare Eng'g Change Notic and Other CM Related Docum	ces/Requests ments - FOC	641403	Х			0001		
			$\ $	x	Perform CM Audits - BOC		641404	х			0001		
				X	Perform CM Audits - IOC		641405	х			0001		

	WORK	K BR	EAK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	L		K BF	EAKDOWN STRUCTURE ELEMENTS.	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			х	Provide Master Product & Control	Document	541401	Х			0001		
			X	Provide Master Product & 1 Control - BOC	Document	641407	х			0001		
			x	Provide Master Product & 1 Control - IOC	Document	641408	X			0001		
			Х	Prepare and Maintain Soft Description Document - BO	ware Version	641410	х			0001		
			x	Prepare and Maintain Soft Description Document - 100		641411	Х			0001		
			X	Prepare and Maintain Soft Description Document - FO	ware Version C	641412	Х			0001		
			х	Administer the Contractor	WBS	541402	х			0001		
			Х	Administer the Contractor	WBS - BOC	641413	х			0001		
			Х	Administer the Contractor	WBS - IOC	641414	х			0001		
			Х	Administer the Contractor	WBS - FOC	641415	х			0001		
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	wo	RK	BR	ΕA	KD	OWN STRUCTURE INDEX	PROGRAM NE	PIC D/C SEGMENT	-			 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1	v [2]				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		т т	X			Security		341500	X		Ħ	0001		<del></del>
	X Security					Security		441500	X			0001		
						Security		541500	x			0001		
	X Prepare Project Security P Security Procedures - BOC				х	Prepare Project Security I Security Procedures - BOC	Plan and	641500	х			0001		
						Implement Security Procedu	ıres - BOC	641501	Х			0001		
						Implement Security Procedu	ıres - IOC	641502	х			0001		
					x	Implement Security Procedu	ıres - FOC	641503	х			0001		
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	w	ORK BI	REA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	NO.	WO:			EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х			Status Reviews		341600	х	1	П	0001		
			۲		Status Reviews		441600	x			0001		1
			x		Status Reviews		541600	x			0001		
				х	Provide Monthly Status Rev	views - BOC	641600	x			0001		
				х	Provide Monthly Status Rev	views - IOC	641601	х			0001		
				x	Provide Monthly Status Rev	views - FOC	641602	х			0001		
		x			Subcontractor Management		341700	х			0001	,	
l				١	Subcontractor Management		441700	х			0001		
			Х		Provide Management, Contro Visibility to Cost & Scheo Subcontractors	ol and dule of	541700	х			0001		
				х	Provide Management, Contro Visibility to Cost & Scheo - BOC		641700	Х			0001		
	į			x	Provide Management, Contro Visibility to Cost & Scheo - IOC	ol and dule of	641701	х			0001		

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	WOF	RKI	BRE	ΑK(	DOWN STRUCTURE INDEX	PROGRAM	NPI	C D/C SEGMENT	-			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1		ORK		EAKDOWN STRUCTURE ELEMENTS/	TASKS		WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X X	Visibility to Cost & Schee - FOC	dule of		641702 641703	x x			0001		
				x	Visibility to Cost & Sched - BOC Provide Management, Contro Visibility to Cost & Sched	dule of		641704	х			0001		
				х	<ul> <li>IOC</li> <li>Provide Management, Control</li> <li>Visibility to Cost &amp; Scheo</li> <li>FOC</li> </ul>	ol and dule of		641705	х			0001		
				X	Visibility to Cost & Scheo	dule of		641706	Х			0001		
				X	Provide Management, Contro Visibility to Cost & Scheo - IOC	lule of		641707	Х			0001		
				X	Provide Management, Contro Visibility to Cost & Scheo - FOC			641708	Х			0001		
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NPIC D/C SEGMENT

WBS

341800

CODE NO.

MANU

RFP NO. 82-B-015

SOW

NO.

PARA.

CONTRACT NO.

CONTRACT

LINE

ITEM

0001

DATE:

2-24-82

NUMBER

**SPECIFICATION** 

**PROGRAM** 

WORK BREAKDOWN STRUCTURE INDEX

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

Document Publication and Control

LINE NO.

123456

	w	ORK	BR	EΑ	KD	OWN STRUCTURE INDEX	PROGRAM NF	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE	· ·	w 23				AKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	T	Х		П	T	System Engineering		242000	Х	_		0002		
	X System Engineering Manageme						ment	342100	х			0002		
	X System Engineering Manageme					System Engineering Manager	ment	442100	х			0002		
	X Provide Tech. Mgmt of Proj					Provide Tech. Mgmt of Pro	ject	542100	х			0002		
İ		X Provide Tech. Mgmt of Proj					ject - BOC	642100	х			0002		
		X Provide Tech. Mgmt of Proj					ject - IOC	642101	X			0002		
				$\  \ $	x	Provide Tech. Mgmt of Pro	ject - FOC	642102	х			0002	-	
				х		Provide/Enforce S/W-Opns-l Stds	HW Interface	542101	Х			0002		
					х	Provide/Enforce S/W-Opns-l Stds - BOC	HW Interface	642103	х			0002		
					х	Provide/Enforce S/W-Opns-l Stds - IOC	HW Interface	642104	х			0002		
					х	Provide/Enforce S/W-Opns-l Stds - FOC	HW Interface	642105	х			0002		
				X		Prepare Segment Developmen	nt Plan	542102	х			0002		
		X Prepare Segment Develop					nt Plan - BOC	642106	х			0002		
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	١	VORK	BRE	AKI	DOWN STRUCTURE INDEX	PROGRAM NF	PIC D/C SEGMENT	r			RFP NO. <u>82-8</u> CONTRACT		DATE: 2-24-82
LINE	NO.	W			REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		$\top$	x		Analysis		342200	х			0002		,
			x	1	Analysis		442200	Х			0002		
				X	Provide Requirements Anal Traceability	ysis &	542200	Х			0002		
				х	Provide Requirements Anal Traceability - BOC	ysis &	642200	х			0002		
				х	Provide Requirements Anal Traceability - IOC	ysis &	642201	x			0002		
				х	Provide Requirements Anal Traceability - FOC	ysis &	642202	х			0002		
				x	Provide Performance Analy	sis	542201	х			0002		
				х	Provide Performance Analy (Perform Tech Performance		642203	х			0002		
				х			642204	x			0002		
				Х			642205	X			0002		
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PROGRAM

	W	ORK	BR	EA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Г			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1	W [2]				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П		Х		Provide RMA Analysis		542202	х	-	Γ	0002		
		Ш			х	Provide RMA Analysis - BOO		642206	x			0002		
		П			х	Provide RMA Analysis - IOO		642207	х			0002		
		$\  \ $			х	Provide RMA Analysis - FOO	. ·	642208	x			0002		
				x		Prepare Segment Design Ana	alysis Report	542203	х	l		0002		
					X	Prepare Segment Design Ana	alysis Report	642209	х	İ		0002		
			l		x	Prepare Segment Design Ana - IOC	alysis Report	642210	х	l		0002		
			Ì		x	Prepare Segment Design Ana - FOC	alysis Report	642211	Х			0002		·
'		$\  \ $		х		Accomplish Trade Studies		542204	х			0002		
	l				х	Accomplish Trade Studies -	- BOC	642212	х			0002		
		П			Х	Accomplish Trade Studies -	- IOC	642213	х			0002		
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	wc	ORK	BR	EA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	•			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	-	V [2]				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					x	Accomplish Trade Studies -	- FOC	642214	Х	Π		0002		
			l	Х		Provide Eng. Specialties		542205	x			0002	Reserved	
:					х	Provide Eng. Specialties -	- вос	642215	x			0002	Reserved	
				х		Provide Support to Interse Interface Definition & Req Determination		542206	х			0002	·	
		Determination  X Provide Support to Interse				Interface Definition & Req		642218	х			0002		
					Х	Provide Support to Interse Interface Definition & Req Determination - IOC		642219	х			0002		
						Provide Support to Interse Interface Definition & Req Determination - FOC		642220	х			0002		
				х		Prepare Eng. Technical Not	es	542207	х			0002		
					k	Prepare Eng. Technical Not	es - BOC	642221	х			0002		
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NPIC D/C SEGMENT

WBS

CODE NO.

RFP NO. 82-B-015

CONTRACT NO. .

SOW

NO.

PARA.

CONTRACT

LINE

ITEM

DATE:

2-24-82

NUMBER

SPECIFICATION

**PROGRAM** 

WORK BREAKDOWN STRUCTURE INDEX

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

LINE NO.

1 2 3 4 5 6

	wo	ORKI	BRE	AKI	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	•			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1	W(			EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	T	П	П	х	Develop User Manuals - FO	С	642305	X	П		0002		
			2	ζ.	Develop Segment/Systems On Manuals	perations	542302	Х			0002		
				х	Develop Segment/Systems Op Manuals - BOC	perations	642306	Х			0002		
				Х	Develop Segment/Systems Op Manuals - IOC	perations	642307	х			0002		
						perations	642308	х			0002		
			)		Conduct Productivity Enhan	ncement Studies	542303	х			0002		
				x	Conduct Productivity Enhan	ncement Studies	642309	х			0002		
				Х	Conduct Productivity Enhan	ncement Studies	642310	х			0002		
				Х	Conduct Productivity Enhan	ncement Studies	642311	Х			0002		
			Σ		Prepare 0 & M Plan	,	542304	х	1		0002		
				X	Prepare 0 & M Plan - BOC		642312	Х	1		0002	,	
	İ			x	Prepare 0 & M Plan - IOC		642313	х		Ì	0002		
				х	Prepare O & M Plan - FOC		642314	х			0002		
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NPIC D/C SEGMENT

RFP NO. <u>82-B-015</u>

DATE:

PROGRAM

WORK BREAKDOWN STRUCTURE INDEX

	WOR	КВ	RE	AKE	OOWN STRUCTURE INDEX	NP	IC D/C SEGMENT	•			CONTRACT N		2-24-82
LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	X		Prepare Maintenance & Logi	istics Plan	542305	Х	_		0002		
				х	Prepare Maintenance & Logi	stics Plan	642315	х			0002		
	П	$\  \ $		X	Prepare Maintenance & Logi	stics Plan	642316	Х			0002		
		$\ $	١	X		stics Plan	642317	х			0002		
		X		$\  \ $	Design		342400	х			0002		
			4	$\ $	Design		442400	Х			0002		
			Х		Prepare Segment Design Spe Including Requirement Allo	cification cation	542400	х			0002		
				x	Prepare Segment Design Spe Including Requirement Allo	cification cation - BOC	642400	x			0002		
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	WORK	BRE.	AKD	OOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Ť			RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	W			EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		)		Provide Data Base Specifi	cation	542401	Х	П		0002		
		Ш	х	Provide Data Base Specific	cation - BOC	642401	х			0002		
		)		Provide Eng. Specialties	Design	542402	х			0002		
		$\ $	x	Provide Eng. Specialties	Design - BOC	642402	х			0002		
		X	41	Develop Interface Specs.		542403	х			0002		
			x	Develop Interface Specs.	- BOC	642405	Х			0002		
			x	Develop Interface Specs.	- IOC	642406	х			0002		
			x	Develop Interface Specs.	- FOC	642407	х			0002		
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	w	ORK	BR	EΑ	ΚD	OWN STRUCTURE INDEX	PROGRAM NF	PIC D <b>/</b> C SEGMEN	Г			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	2	V 1 2				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			х			Transition & Integration   Support	Planning and	342500	х			0002		
			x			Transition & Integration I Support	Planning and	442500	х			0002		
				х		Develop Segment Trans. & 3	Integ. Plan	542500	Х			0002		
			X Develop Segment Trans.				Integ. Plan	642500	Х			0002		
			- BOC X Develop Segment Trans. 8 - IOC				Integ. Plan	642501	Х			0002		
			X Develop Segment Trans. 8				Integ. Plan	642502	X			0002		
				Х		Support Facility Planning and Checkout	, Installation	542501	Х			0002		
					х	Support Facility Planning and Checkout - BOC	, Installation	642503	х			0002		
					X	Support Facility Planning and Checkout - IOC	, Installation	642504	х			0002		
					X	Support Facility Planning, and Checkout - FOC	, Installation	642505	х			0002		
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	W	ORK I	BRE	AKI	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Г			RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE	و 2 1	W(			EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			2	7	Support Transition of New into the Operational Envir		542502	Х	1		0002		
				x	Support Transition of New into the Operational Envir		642506	х			0002		
				х	Support Transition of New into the Operational Envir		642507	х			0002		
				х	Support Transition of New into the Operational Envir		642508	х			0002		
		2			Test Support		342600	x			0002		
			x		Test Support		442600	х	١	l	0002		
			X		Prepare Segment Verificati	ion Plan	542600	х			0002		
				Х	Prepare Segment Verificati	ion Plan - BOC	642600	х			0002		
				Х	Prepare Segment Verificati	ion Plan - IOC	642601	х			0002		
				x	Prepare Segment Verificati	ion Plan - FOC	642602	Х			0002		
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,	woı	RK	BRE	ΑK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11	· wo			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			П	ĸ	Prepare Segment Test Plan Procedures	and Prepare	542601	X			0002		
				X	Prepare Segment Test Plan	- BOC	642603	х			0002		
}				X	Prepare Segment Test Plan	- IOC	642604	х			0002	:	
				X	Prepare Segment Test Plan	- FOC	642605	х			0002		
				K	Support the Execution and of Tests	Evaluation	542602	X			0002		
				Χ	Support the Execution and of Tests - BOC	Evaluation	642606	X			0002		
				X	Support the Execution and of Tests - IOC	Evaluation	642607	X			0002		
				Σ	Support the Execution and of Tests - FOC	Evaluation	642608	X			0002		
						•							

	w	ORK	BR	EA	(D	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
1	NO.	V 1 2 1				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			Х		I	Config. Mgmt. Support		342700	х	$\mathbf{I}$		0002		
İ			X			Config. Mgmt. Support		442700	х		١	0002		
				х		Evaluate Proposed Changes Change Request Impact Anal Interface Control		542700	х			0002		
					x	Evaluate Proposed Changes Change Request Impact Anal Interface Control - BOC		642700	х			0002		
					x	Evaluate Proposed Changes Change Request Impact Anal Interface Control - IOC	and Provide Lysis Including	642701	Х			0002		
					x	Evaluate Proposed Changes Change Request Impact Anal Interface Control - FOC		642702	Х			0002		
		$\  \ $	X			Technical Reviews		342800	Х			0002		
			x			Technical Reviews		442800	Х			0002		
				х		PDR Technical Review	:	542800	х			0002		
					x	PDR Technical Review - BOO	;	642800	х			0002		
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LINE NO.		W(			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	Ť	Ï	х	PDR Technical Review - IOC	;	642801	x	_	H	0002		
				x	PDR Technical Review - FOO	:	642802	х			0002		
	$\  \ $		Σ		CDR Technical Review		542801	х			0002		
				х	CDR Technical Review - BOO	:	642803	х			0002		
				x	CDR Technical Review - IOC	,	642804	х			0002		
				x	CDR Technical Review - FOO	:	642805	х			0002		
			X		SDR Technical Review		542802	х			0002		
				x	SDR Technical Review - BOO	1	642806	х			0002		
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	NO.	1]		OR			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANIF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
$\cdot [$					X		Conduct Technical Audits/N	lisc. Reviews	542803	х			0002		
١						х	Conduct Technical Audits/N	lisc. Reviews	642809	x			0002		
١						х	- BOC Conduct Technical Audits/N	lisc. Reviews	642810	x			0002		1
						X	- IOC Conduct Technical Audits/N - FOC	lisc. Reviews	642811	х			0002		
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	WORK B	REAK	DOWN STRUCTURE INDEX	PROGRAM NP	TIC D/C SEGMENT	Г		RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	WC		REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Х		Software Development (BOC)	)	243000	х	П	0003		
	x		Software Development Manag	gement - BOC	343100	x		0003		
		х	Software Development Manag	gement - BOC	443100	х		0003		
		x	Manage All SW Devel. Activ	vities	543100	x		0003		
		X	Manage All SW Devel. Activ	vities	643001	х		0003		
		Х	Provide & Enforce Program Coding & Test Practices, & Conventions	Design, Standards &	543101	Х		0003		
		x	NPIC Specific Software Tra (Univac System & COBOL)	aining	643002	х		0003		
		x	Software Tool Development		643003	х		0003		
		х	Software Engineering		543102	x		0003		
		X	Software Architecture	,	643004	х		0003		**
		Х	Technical Support to Subco	ontract Mgmt.	643005	x	$\  \ $	0003		
		Х	Segment PPS & C		643007	x	П	0003		
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	wo	RK	BRI	EAK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	•			RFP NO. <u>82-B</u> CONTRACT N	DATE: 2-24-82	
LINE NO.	1	W 2 3	_		REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П		П	_	COBOL Code Conversion		643008	х	-	П	0003		
				х	Software Control		543103	х			0003		
				,	Library Control		643009	х	х	0003			
					Software Builds & Release:	S	643010	х			0003		
		X Provide Inputs to Segment I				Devel. Plan	543104	х			0003		
						Devel. Plan	643011	х	c	0003			
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	LINE NO.	1 2				REAKDOWN STRUCTURE E	LEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ſ				П	х	Data Base Implemen	ntation	(BOC)	543105	х			0003		
						X DMS 1100 Level 6 t	to Level	8 Conversion	643012	x			0003		
						X Data Base Conversi Design, Implementa		erification	643014	X			0003		
						X Data Base Package			643015	х			0003		
		X Data Base Support to Devel and Test & Verification				X Data Base Support and Test & Verific	lopment	643016	х			0003			
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**WORK BREAKDOWN STRUCTURE INDEX** 

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

1	П		k	1	Н	Critical Design	44322A	х	П	T	0003		ı
1	П	П	r		H	offerent peorgn	775220	ſ,		ı	0003		l
			ļ	Х		Prepare Build-to Design Specs	54322A	Х			0003		
					Х	Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643022	х			0003	_	ĺ
			Ì		х	Prepare Prelim. Programmer's Manual	643023	х			0003		
					х	Prepare CPCI Test Plan (Final) Appendix for BEPPRE	643024			х	0003		
1	Н		k			Development	44323A	х			0003		
				x		Develop CPC's	54323A	х			0003		
	П		1		x	Code & Unit Test	643025		х		0003		
			l		Х	Integr & Test to CPC Level	643026			х	0003		
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LINE NO.	1	WORK BREAKDOWN STRUCTURE ELEMENTS/1					/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	Х	Т	П	Test		44324A	T		Х	-	0003		
				x		Test		54324A			х		0003		
		X Test at the CPC and CPCI I				Test at the CPC and CPCI	Levels	643027			х		0003		
	X Develop SW Test Procedures X Support Test & Verification				Х	Develop SW Test Procedure	s	643028	Ì		х		0003		
					х	Support Test & Verificati	on	643029			х		0003		
		X Prepare Test Reports				Prepare Test Reports		643030			х		0003		
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	LINE NO.	1 2				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X			Documentation		44325A	х			0003		
				х		Prepare As-built Documenta	ation	54325A	х			0003		
					Х	Prepare Inputs to User, Op Data Base Administration h	perator and Manuals	643031	х			0003		
					х	CPCI Listings As-built		643032	Х			0003		
					x	Prepare Programmer's Manua	al (Final)	643034	Х			0003		
					х	Prepare Inputs to Training	g Manuals	643035	Х			0003		
					х	Prepare As-built Part II S	Specs	643036	Х			0003		
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LINE NO.	1 2				AKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
L L	1 2	X X	x	x x x	BEMCMT CPCI: Exploitation Manage Prelim. Design Prepare Prelim. Design Spe Requirements Analysis & A: Prepare Prelim. Design Parand Conduct Internal Design Prepare Data Dictionary Prepare Prelim. Part II Sp	ecs llocation rt I Specs gn Reviews pecs	343201 44321B 54321B 643037 643038 643039 643040	X X X X			0003 0003 0003 0003 0003	NO.	
				X	Prepare CPCI Test Plan (Pr Appendix for BEMGMT	relim.)	643041			x	0003		

	WOR	KE	RE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT					RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/T					/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	$\prod$		x	I	Critical Design			х				0003		
			2		Prepare Build-to Design S	pecs	54322B	х				0003		
				х	Prepare Build-to Part II : Conduct Internal Design Ro	Specs and eviews	643042	Х				0003		
				Х	Prepare Prelim. Programme	r's Manual	643043	х				0003		
				Х	Prepare CPCI Test Plan (F Appendix for BEMGMT	inal)	643044	Х				0003		
			x		Development		44323B	х				0003		
			2	4	Develop CPC's		54323B	х				0003		
				Х	Code & Unit Test		643045		х			0003		
				х	Integr & Test to CPC Leve	1	643046			х		0003		
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				X	١	Test	44324B		Х	0003		ĺ
				1	X	Test	54324B		х	0003		
		ı			Х	Test at the CPC and CPCI Levels	643047		х	0003		
					Х	Develop SW Test Procedures	643048		х	0003		ĺ
				ł	Х	Support Test & Verification	643049		Х	0003		
				۱	x	Prepare Test Reports	643050		Х	0003		
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LINE NO.	1	w 2 3				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	PES/DEV	MANITE	TEST	3	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	x	T	1	Documentation		44325B	х	-	Ť	T	0003		
			l	x		Prepare As-built Documenta	ntion	54325B	х	İ			0003		
					x	Prepare Inputs to User, Op Data Base Administration N		643051	х				0003		
					x	CPCI Listings As-built		643052	x				0003		
		X Prepare Programmer's Man				Prepare Programmer's Manua	ıl (Final)	643053	х				0003		
						Prepare Inputs to Training	g Manuals	643054	x				0003	İ	
					X	Prepare As-built Part II S	Specs	643055	x				0003		
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DATE: 2-24-82		RFP NO. <u>82-B-</u> CONTRACT N			PIC D/C SEGMENT	PROGRAM NF	OWN STRUCTURE INDEX	KDO	REA	RK BI	wo	
SPECIFICATION NUMBER	SOW PARA. NO.	CONTRACT LINE ITEM	TEST	DES/DEV	WBS CODE NO.	/TASKS	EAKDOWN STRUCTURE ELEMENTS,			wo:	1	LINE NO.
		0003		x		ts - BOC	BERESU CPCI: Exploitation Resul			K		
		0003		х	44321C		Prelim. Design		x			
		0003		х	54321C	ecs	Prepare Prelim. Design Sp		X			
		0003		x	643056	llocation	Requirements Analysis & A	х				
		0003		х	643057	rt I Specs gn Reviews	Prepare Prelim. Design Pa and Conduct Internal Desi	Х				
	4	0003		х	643058		Prepare Data Dictionary	Х				1
		0003		х	643059	ecs	Prepare Prelim Part II Sp	Х				
	ļ	0003	x		643060	relim)	Prepare CPCI Test Plan (P Appendix for BERESU	х				
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LINE NO.	WC			EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE N	O. (	DES/DEV	MANUF	ESI	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		x	۱	Critical Design		44322C		ĸ			0003		
		:	ĸ	Prepare Build-to Design S	pecs	54322C	)	ĸ			0003		
			х	Prepare Build-to Part II : and Conduct Internal Desi	Specs gn Reviews	643061	Σ	ζ			0003		
			х	Prepare Prelim. Programme	r's Manual	643062	X	۲			0003		
			х	Prepare CPCI Test Plan (F: Appendix for BERESU	inal)	643063			х		0003		
		x		Development		44323C	x				0003		
1		2		Develop CPC's		54323C	x				0003		
		۱	x	Code & Unit Test		643064			x		0003		
			х	Integr. & Test to CPC Leve	<u>:</u> 1	643065		ļ	х		0003		
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1	NO.	1 2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Test		44324C		ГТ	х	0003		
					ĸ	Test		54324C			x	0003		
					X	Test at the CPC and CPCI I	evels	643066			х	0003		
			П	1	X	Develop SW Test Procedures	ı	643067		;	x	0003		
	į				x	Support Test & Verification	n	643068			x	0003		
			П		X	Prepare Test Reports		643069			x	0003		
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WORK BREAKDOWN STRUCTURE INDEX

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LINE NO.						BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	1,010	DES/DEV	MANUF	123	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				ζ	I	Documentation	44325C	>	- 1	T	T	0003		
					ĸ	Prepare As-built Documentation	54325C	X		l		0003		
		ı			1	X CPCI Listings As-built	643071	X				0003		
						X Prepare As-built Part II Specs	643074	X				0003		
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LINE	<u>2</u>	WOF		REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X X	x 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BMANIP CPCI: Data Manipulation Prelim. Design Prepare Prelim. Design Sp Requirements Analysis & A Prepare Prelim. Design Pa and Conduct Internal Desi Prepare Data Dictionary Prepare Prelim. Part II S Prepare CPCI Test Plan (P Appendix for BMANIP	ecs. llocation rt I Specs. gn Reviews	44321E 54321E 643094 643301	x x x x x		x	0003 0003 0003 0003 0003 0003 0003	Prelin costs CPCI w errone	ously ed under 322E,

	WOF	RK I	BRE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11:				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	T	х	I	Critical Design		44322E	Х			0003		
	П	ı		ĸ	Prepare Build-to Design Sp	ecs.	54322E	x			0003	<u> </u>	
				1	Prepare Build-to Part II S and Conduct Internal Desig	pecs. n Reviews	643098	х			0003		
				7	Prepare Prelim. Programmer	's Manual	643099	х			0003		
				2	Prepare CPCI Test Plan (Fi Appendix for BMANIP	nal)	643100	х			0003		
			x		Development		44323E	x			0003		
			2	4	Develop CPC's		54323E	х			0003		
				2	Code & Unit Test		643101		х		0003		
	$\ \cdot\ $	l		2	Integr. & Test to CPC Leve	1	643102			х	0003		
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LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	$\prod$		Х		Test		44324E				0003		
			Σ		Test		54324E		>	۲	0003		
				х	Test at the CPC and CPCI	Levels	643103			۲	0003		
				х	Develop SW Test Procedure	s	643104		×	۲	0003		
	П			x	Support Test & Verification	on	643105		×	۲	0003		
	$\  \ $		١	х	Prepare Test Reports		643106		X	۲	0003		

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LINE NO.	1			< BF	REAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	x		Documentation		44325E	х			Г	0003		
					Prepare As-built Document	ation	54325E	х				0003		
				х	Prepare Inputs to User, O Data Base Administration	perator and Manuals	643107	х				0003		
	$\  \ $	X CPCI Listings As-built					643108	х				0003		
	$\ $	X Prepare Programmer's Man				al (Final)	643109	х				0003		
1		X Prepare Inputs to Trainin				g Manuals	643110	х				0003		
		X Prepare Inputs to Trainin X Prepare As-built Part II				Specs	643111	х				0003		
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LINE NO.	1					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	SES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
N	1	2	x x	x	x x x	BSTATR CPCI: Statistics Reporting Prelim. Design Prepare Prelim. Design Specific Requirements Analysis & All Prepare Prelim. Design Parand Conduct Internal Design Prepare Data Dictionary Prepare Prelim. Part II Specific Prepare CPCI Test Plan (Prepare Appendix to BSTATR)	ecs.  Ilocation  ct I Specs. gn Reviews	343205 44321F 54321F 643112 643113 643114 643115 643116	X X X X X		x	0003 0003 0003 0003 0003 0003 0003	NO.	

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LINE NO.	1	v [2]				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	х	Γ		Critical Design		44322F	х	$\mathbf{r}$	Γ	0003		
		$\  \ $		x		Prepare Build-to Design Sp	pecs.	54322F	х			0003		
					х	Prepare Build-to Part II : Conduct Internal Design Ro	Specs. and eviews	643117	х			0003		
			l		х	Prepare Prelim. Programme	r's Manual	643118	х			0003		
					x	Prepare CPCI Test Plan (F: Appendix for BSTATR	inal)	643119			Х	0003		
			x			Development		44323F	х			0003		
				х		Develop CPC's		54323F	х			0003		
			1		х	Code & Unit Test		643120		x		0003		
					х	Integr. & Test to CPC Leve	el	643121			х	0003		
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LINE	2 1		иоі 3 <sup>2</sup>			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			K			Test		44324F			х	0003		
				x		Test		54324F			х	0003	İ	
		ļ			х	Test at the CPC and CPCI I	Levels	643122	l		х	0003		
					х	Develop SW Test Procedures	<b>S</b>	643123			х	0003		
					х	Support Test & Verification	on	643124			х	0003		
	ı		ı		х	Prepare Test Reports		643125			х	0003		
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NO .	113					EAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANIE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			x			Documentation	44325F	Х			0003		
				x		Prepare As-built Documentation	54325F	х			0003		
		l			x	CPCI Listings As-built	643127	х			0003		
					x	Prepare As-built Part II Specs.	643130	Х			0003		la-
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LINE NO.	11	W(			EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		χ			BMMGMT CPCI: Materials Manageme	nt - BOC	343207	х			0003		
		Ì	x	l	Prelim. Design		44321Н	х			0003		
				x	Prepare Prelim. Design Sp	ecs.	54321Н	х			0003		
				X	Requirements Analysis & A	llocation	643149	х			0003		
				X	Prepare Prelim. Design Pa and Conduct Internal Desi	rt I Specs. gn Reviews	643150	Х			0003		
ŀ				X	Prepare Data Dictionary		643151	Х			0003		
				Х	Prepare CPCI Test Plan (Pappendix for BMMGMT	relim.)	643153			х	0003		

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LINE	2 1	w 21:				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			х			Critical Design		44322Н	х			0003		
				х		Prepare Build-to Design S	pecs	54322Н	х			0003		
			l		х	Prepare Prelim. Programme	r's Manual	643155	х			0003		
					X	Prepare CPCI Test Plan (F Appendix for BMMGMT	inal)	643156	х			0003		
			x			Development		44323Н	х			0003		
				х		Develop CPC's		54323Н	x			0003		
					X	Integr. & Test to CPC Lev	el	643158			х	0003		

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**PROGRAM** 

WORK BREAKDOWN STRUCTURE INDEX

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WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

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	LINE NO.	1 :					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			Ī	X			Documentation		44325Н	х			0003		
					х		Prepare As-built Documenta	ation	54325Н	х			0003		
						X	CPCI Listings As-built		643163	x			0003		
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NO.					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ON	1 2		Х		BCCNTR CPCI: Command & Control - Prelim. Design Prepare Prelim. Design Spe Requirements Analysis & Al Prepare Prelim. Design Par and Conduct Internal Desig Prepare Data Dictionary Prepare Prelim. Part II Sp Prepare CPCI Test Plan (Pr Appendix for BCCNTR	- BOC ecs. Llocation et I Specs. gn Reviews	CODE NO.  343208  44321I  54321I  643167  643168  643169	x x x x x x x		X	LINE	PARA.	NUMBER
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**PROGRAM** 

WORK BREAKDOWN STRUCTURE INDEX

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

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LINE NO.	1	۷ 2]:				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	Х	T		Test		44324I	Γ	ПП	х	0003		
				х		Test		543241			x	0003		
			l		х	Test at the CPC and CPCI	Levels	643177			х	0003		
					x	Develop SW Test Procedures	s	643178			х	0003		
					x	Support Test & Verification	on	643179			х	0003		
					x	Prepare Test Reports		643180			x	0003		
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1	NO.	11:					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
Γ		П		x	1	Т	Documentation		443251	Х				0003		
					x		Prepare As-built Documenta	ation	543251	х				0003		
						ď	CPCI Listings As-built		643182	x				0003		
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**WORK BREAKDOWN STRUCTURE INDEX** 

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		х			BQUERY CPCI: Query - BOC	343209	Х				0003		
		k			Prelim. Design	44321J	x				0003		
		П	Х		Prepare Prelim. Design Specs.	54321J	x				0003		
				х	Requirements Analysis & Allocation	643186	х			Ì	0003		
				х	Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643187	X				0003		
	:	$\  \ $		x	Prepare Data Dictionary	643188	Х			١	0003		
		П		х	Prepare Prelim. Part II Specs.	643189	Х				0003		
				X	Prepare CPCI Test Plan (Prelim.) Appendix for BQUERY	643190			х		0003		
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LINE NO.	1]					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ		x	Ť	1	Critical Design		44322J	x		Ħ	0003		
İ			$\ $	x		Prepare Build-to Design Sp	pecs.	54322J	X			0003	i.	
				]	k	Prepare Build-to Part II S Conduct Internal Design Re	Specs. and eviews	643191	x			0003		
					K	Prepare CPCI Test Plan (F: Appendix for BQUERY	inal)	643192			х	0003		
			k	١		Development		44323J	x			0003		
				х		Develop CPC's		54323J	x			0003		
	$\  \ $				4	Code & Unit Test	•	643193		х		0003		
				]:	ď	Integr. & Test to CPC Leve	el	643194			х			
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LINE NO.	1	W 2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	П	x	П		Test		44324J			Х	0003		
				x		Test		54324J			X	0003		
				$\ $	x	Test at the CPC and CPCI	Levels	643195			X	0003		
			ļ		x	Develop SW Test Procedure	s	643196			х	0003		
					x	Support Test & Verification	on ·	643197			х	0003		
					x	Prepare Test Reports		643198			х	0003		
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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV MANUF TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Documentation	44325J	x	0003		
	X Prepare As-built Documentation	54325J	x	0003		
	X CPCI Listings As-built	643200	x	0003		
	X Prepare As-built Part II Specs.	643203	x	0003		
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	wc	ORK	BR	EA	KDO	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	ŗ			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	<u> </u>		VOF			AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			x			BAPPLS CPCI: Application Support	- BOC	343210	х			0003		
			k			Prelim. Design		44321K	Х			0003		
		Ш		х		Prepare Prelim. Design Spe	ecs.	54321K	х			0003		
		$\  \ $			х	Requirements Analysis & Al	location	643204	x			0003		
					x	Prepare Prelim. Design Par and Conduct Internal Desig		643205	х			0003	·	
		П		$\  \ $	x	Prepare Data Dictionary	i	643206	x			0003		
					х	Prepare Prelim. Part II Sp	ecs.	643207	х			. 0003		
					х	Prepare CPCI Test Plan (Pr Appendix for BAPPLS	celim.)	643208			х			
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LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
1	П		X			Critical Design		44322K	х		T	Τ	0003		
	Ш	l		х		Prepare Build-to Design Sp	pecs.	54322K	х				0003		
					х	Prepare Build-to Part II S Conduct Internal Design Re	Specs. and eviews	643209	х				0003		
					х	Prepare Prelim. Programme	r's Manual	643210	х				0003		
					x	Prepare CPCI Test Plan (Fi Appendix for BAPPLS	inal)	643211			x		0003		
			x			Development		44323K	х				0003		
l				х		Develop CPC's		54323K	х				0003		
		1			x	Code & Unit Test		643212		x			0003		
					x	Integr. & Test to CPC Leve	el	643213			х		0003		
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	LINE NO.	11		OR			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	1	x	П		Test		44324K	Ī	1 1	х	0003		
					х		Test		54324K			х	0003		
١						x	Test at the CPC and CPCI I	Levels	643214	l		х	0003		
						х	Develop SW Test Procedures	3	643215			x	0003		
			١			х	Support Test & Verification	on.	643216			х	0003		
						х	Prepare Test Reports		643217			x	0003		
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LINE NO.		y 2				EAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			k			Documentation	44325K	х	T		0003		·
				x		Prepare As-built Documentation	54325K	х			0003		
					х	CPCI Listings As-built	643219	Х			0003		
					х	Prepare Programmer's Manual (Final)	643220	х			0003		
			İ		х	Prepare Inputs to Training Manuals	643221	х			0003		
					Х	Prepare As-built Part II Specs.	643222	х			0003		
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- N	NO.					EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
SW I	NO.	1 2				BDMAPS CPCI: DBM Application Superelim. Design Prepare Prelim. Design Sperence Prelim. Design Prepare Prelim. Design Parand Conduct Internal Design Prepare Data Dictionary Prepare Prelim. Part II Sperence CPCI Test Plan (Prepare CPCI Test Plan (Prepare Appendix for BDMAPS)	ecs. Continuous de la Specs. Contra Reviews Contra Reviews		x x x x x x x		X	LINE	PARA.	NUMBER
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	wo	RK	BR	EÆ	ιKI	DOWN STRUCTURE INDEX	PROGRAM NI	PIC D/C SEGMEN	т				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1		/OF			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	750/05/	MANIE	TEST	3	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П		ĸ	Ī		Critical Design		44322L	X	$\neg$	Ť	$\dagger$	0003		
				x		Prepare Build-to Design Sp	ecs	54322L	x				0003		
					х	Prepare Build-to Part II S Conduct Internal Design Re	Specs and eviews	643228	х				0003		
					X	Prepare Prelim. Programmen	's Manual	643229	Х				0003		
					х	Prepare CPCI Test Plan (Fi Appendix for BDMAPS	inal)	643230			x		0003		
			k			Development		44323L	x				0003		
				x		Develop CPC's		54323L	x				0003		
					х	Code & Unit Test		643231	İ	x			0003		
					х	Integr. & Test to CPC Leve	e1	643232			x		0003		
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LINE NO.	1	2				EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	K	Γ		Test		44324L	Γ	ΙТ	x	0003		
			١	x		Test		54324L			x	0003		
					х	Test at the CPC and CPCI	Levels	643233			x	0003		
			1		x	Develop SW Test Procedures	S	643234			х	0003		
					х	Support Test & Verification	on	643235			x	0003		
					х	Prepare Test Reports		643236			x	0003		
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LINE	Q	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			k			Documentation		44325L	х	П	$\top$	0003		
				x		Prepare As-built Documenta	ntion	54325L	х			0003		
					х	CPCI Listings As-built		643238	х			0003		
ı		ı			X	Prepare As-built Part II S	Specs.	643241	х			0003		
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LINE NO.	11:			BRI	EAKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM		SOW PARA. NO.	SPECIFICATION NUMBER
		X	x	x x x x	BTTDEV CPCI: Test & Training - 1 Prelim. Design Prepare Prelim. Design Par Requirements Analysis & Al Prepare Prelim. Design Par and Conduct Internal Design Prepare Data Dictionary Prepare Prelim. Part II Sp Prepare CPCI Test Plan (Pr Appendix for BTTDEV	ct I Specs.  Ilocation  ct I Specs. gn Reviews	343212 44321M 54321M 643242 643243 643244 643245 643246	x x x x		x	0003 0003 0003 0003 0003 0003		costs f CPCI we erroned	ously d under 322M,

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LINE NO.	1	v [2]				EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANITE	MANOR	1531	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	İ		k			Critical Design		44322M	х		T	T	0003		
	l	$\  \ $	١	Х		Prepare Build-to Design Sp	pecs	54322M	x	١			0003		
					X	Prepare Build-to Part II S Conduct Internal Design Re	Specs and eviews	643247	x				0003		
1	1				X	Prepare Prelim. Programme	r's Manual	643248	х				0003		
					х	Prepare CPCI Test Plan (Fi Appendix for BTTDEV	inal)	643249			x		0003		
			k			Development		44323M	х		l		0003		
				x		Develop CPC's		54323M	х				0003		
•					х	Code & Unit Test		643250		х			0003		
					х	Integr. & Test to CPC Leve	el	643251			x		0003		
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	wo	PROGRAM						PROGRAM	NP	IC D/C SEGMENT	Г			 RFP NO. <u>82-B</u> CONTRACT N			DATE: 2-24-82		
LINE NO.	1	w 2 3			REAKDO	WN ST	RUCTUF	RE ELEM	IENTS/T	ASKS		WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SON PAI NO	RA.	SPECIFICATION NUMBER
			X		Test		,					44324M	T		х	0003			
	$\  \ $	1		x	Test							54324M			х	0003			
		Ì		-	X Test	at t	he CPC	and C	PCI Le	evels		643252			x	0003			
					Deve:	lop S	W Test	Proce	dures			643253			х	0003			
			$\ $		Suppo	ort T	est &	Verifi	cation	ı		643254			x	0003			
					Prepa	are T	est Re	ports				643255			х	0003			

	wo	ORK	BR	EAI	CDOWN STRUCTURE INDEX	PROGRAM N	PIC D/C SEGMEN	т			RFP NO. 82-B		DATE: 2-24-82
LINE	<u>.</u>	v [2]			REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	k	П	Documentation		44325M	Х			0003		
		$\  \ $		х	Prepare As-built Document	ation	54325M	x			0003		
				:	Prepare Inputs to User, O Data Base Administration	perator and Manuals	643256	x			0003		
					CPCI Listings As-built		643257	х			0003		
		$\  \ $			K Prepare Programmer's Manu	al (Final)	643258	Х			0003		
				]	Prepare Inputs to Trainin	g Manuals	643259	Х			0003		
					Prepare As-built Part II	Specs.	643260	x			0003		
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LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		х			WAPPLS CPCI: Work Station Applic	eations - BOC	343213	х			0003		
		K			Prelim. Design		44321N	х			0003		
			х		Prepare Prelim. Design Spe	ecs.	54321N	х			0003		
				х	Requirements Analysis & Al	location	643261	х			0003		
				Х	Prepare Prelim. Design Par and Conduct Internal Desig	t I Specs. n Reviews	643262	х			0003		
			Ш	х	Prepare Data Dictionary		643263	х			0003		
			Ш	х	Prepare Prelim. Part II Sp	ecs.	643264	х	١	İ	0003		
				x	Prepare CPCI Test Plan (Pr Appendix for WAPPLS	elim.)	643265			х	0003		

	wo	DRK	BR	EAI	KD(	OWN STRUCTURE INDEX	PROGRAM	NPIC D/C SEGN	1ENT				RFP NO. 82-B CONTRACT N		DATE: 2-24-82
LINE	o 2 1	v [2]				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE N	О.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X			Critical Design		44322N		Х		1	0003		
			۱	Х	ľ	Prepare Build-to Design Sp	pecs.	54322N	ŀ	x			0003		
					х	Prepare Build-to Part II S Conduct Internal Design Re		643266		x			0003		
					х	Prepare Prelim. Programmen	r's Manual	643267	ŀ	х			0003		
					x	Prepare CPCI Test Plan (Fi Appendix for WAPPLS	inal)	643268			2	K	0003		
		$\  \ $	X			Development		44323N		x			0003		
		$\  \ $		х		Develop CPC's		54323N		х			0003		
					x	Code & Unit Test		643269			x		0003		
					x	Integr. & Test to CPC Leve	el	643270	ļ		)	ĸ	0003		
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LINE NO.	1	2				EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					l	Test		44324N			х	0003		
	ļ	П		þ		Test		54324N			x	0003		
					Х	Test at the CPC and CPCI	Levels	643271			x	0003		
		$\  \ $			Х	Develop SW Test Procedures	3	643272			x	0003		
					х	Support Test & Verification	on	643273		þ	ĸ	0003		
					х	Prepare Test Reports		643274		5	ĸ	0003		
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	wor	RK	BRE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11		ORI		REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ	Ť	ĸ		Documentation	<del></del> .	44325N	Х	_	П	0003		
1		ł		x	Prepare As-built Documenta	ntion	54325N	x			0003		
				)	Prepare Inputs to User, Op Data Base Administration N		643275	х			0003		
		l		7	CPCI Listings As-built		643276	х			0003		
				2	Prepare Programmer's Manua	nl (Final)	643277	x			0003		
		ļ		2	Prepare Inputs to Training	g Manuals	643278	Х			0003		
				2	Prepare As-built Part II S	Specs.	643279	x			0003		

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	- 11			П	BEXSUP	2/221/	l,	-		0003		
1		X		$\  \ $	CPCI: Exploitation Support - BOC	343214	Х	-		0003		
			X	$\  \ $	Prelim. Design	44321□	Х			0003	i	
			Х		Prepare Prelim. Design Specs.	54321□	х			0003		
				x	Requirements Analysis & Allocation	643280	х			0003		
				х	Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643281	Х			0003		
				x	Prepare Data Dictionary	643282	х	Ì		0003		
l				x	Prepare Prelim. Part II Specs.	643284	х			0003		
				x	Prepare CPCI Test Plan (Prelim.) Appendix for BEXSUP	643285		x		0003		
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LINE NO.	1 2				AKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANIE	TEST	 CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		x			Critical Design	44322□	х		T	0003		
			х		Prepare Build-to Design Specs.	54322□	х		l	0003		
				x	Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643286	Х			0003		
			П	x	Prepare Prelim. Programmer's Manual	643287	х			0003		
				x	Prepare CPCI Test Plan (Final) Appendix for BEXSUP	643288			x	0003		
		k			Development	44323□	х			0003		
			х	1	Develop CPC's	54323□	Х			0003		
				X	Code & Unit Test	643289		x		0003		
				x	Integr. & Test to CPC Level	643290			Х	0003		
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	\	VOF	RK	BRI	ΞAI	OOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	1]:				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	2	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
Ī		T	T	X	Ť	Test		44324□	$\prod$	х	T	0003		
١				П	x	Test		54324□		х		0003		
			۱			X Test at the CPC and CPCI L	evels .	643291		х		0003		
İ			١	Н		X Develop SW Test Procedures		643292		x		0003		
						X Support Test & Verificatio	n	643293		x		0003		
١		X Prepare Test Reports				X Prepare Test Reports		643294	$\  \ $	x		0003		
-		Trepare rest reports												
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LINE NO.	11		ORI			TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Ť	ĸ	Ť	Documentation	<del></del>		x	_		0003		
			H	x	Prepare As-built Documenta	tion	54325□	х			0003		
				X	Prepare Inputs to User, Op Data Base Administration M		643295	х			0003		
	X CPCI Listings As-built				CPCI Listings As-built		643296	х			0003		
			$\ $	x	Prepare Programmer's Manua	l (Final)	643298	х			0003		
				x	Prepare Inputs to Training	Manuals	643299	х			0003		
		İ		x	Prepare As-built Part II S	pecs.	643300	х			0003		

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LINE NO.	1	V [2]				EAKDOWN STRUCTURE ELEMENTS/TAS	KS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	х	1	T	Ì	Software Development (IOC)			х			0004		
	П		x			Software Development Manageme	ent	344100	х			0004		
	П		K			Software Development Manageme	ent	444100	Х			0004		
			١	x		Manage All SW Devel. Activiti	.es	544100	Х			0004		ŀ
	П					Manage All SW Devel. Activiti	.es	644001	х			0004		
		X Provide & Enforce Program				Provide & Enforce Program Des Coding & Test Practices, Star Conventions		544101	х			0004		
					X	Software Engineering		644005	х			0004		
			١	x		Software Architecture		544102	х			0004		
					х	Tech. Support to Subcontract Software Trade Studies	Mgm't.	644006	х			0004		
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	LINE NO.	ı	w 2]:				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	1	Ť		х	COBOL Code Conversion		644007	х	П		0004		
						х	Software Control		644008	х			0004		
					х		Library Control		544103	х			0004		
						х	Software Builds & Releases	3	644009	х			0004		
					х		Provide Inputs to Segment	Devel. Plan	544104	Х			0004		
			١			x	Provide Inputs to Segment	Devel. Plan	644010	х			0004		
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LINE NO.	1	2				REAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Data Base Implementation	(IOC)	544105	х	1	П	0004		
					х	Data Base Conversion Design, Implementation, Vo	erification	644012	x			0004		
	ŀ				х	Data Base Package		644013	x			0004		
					х	Data Base Support to Deve and Test & Verification	lopment	644014	Х			0004		
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LINE NO.

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	wo	RK	BR	EAF	(DC	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		1	DATE: 2-24-82
LINE NO.	11		OR 34			AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	2	CONTRACT LINE ITEM		SOW PARA. NO.	SPECIFICATION NUMBER
	П		X	T	Т	Test		44424A		x		0004	7		
				x		Test		54424A		x		0004		BEPPRE	CPCI
					X	Test at the CPC & CPCI Lev	vels	644020		x	:	0004		costs w	
İ				]:	x	Develop SW Test Procedures	5	644021		x		0004	}	budgete BEPPRE	ed in the WBS's
					x	Support Test & Verification	on	644022		x		0004		for BOC page 30	,
				ŀ	x	Prepare Test Reports		644023		x		0004	IJ		

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LINE NO.	1];				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X	x x	Documentation  Prepare As-built Documenta  CPCI Listings As-built  Prepare Programmer's Manua	al (Final)	54425A 644025	x x x			0004 0004 0004 0004	BEPPRE costs we erroned budgete BEPPRE for BOG page 31	were ously ed in the WBS's

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		П	T	П	BEMGMT	2//201			Γ	0004		
		X			CPCI: Exploitation Management - IOC	344201	X					
			1	П	Critical Design	44422B	Х			0004		
ļ.			X		Prepare Build-to Design Specs.	54422B	Х			0004		
				X	Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644029	Х			0004		
		П		x	Prepare Prelim. Programmer's Manual	644030	х	l		0004		
				х	Prepare CPCI Test Plan (Final) Appendix for BEMGMT	644031			х	0004		
	į				Development	44423B	х			0004		
		$\  \ $	x		Develop CPC's	54423B	х			0004		
1				х	Code & Unit Test	644032	ļ	х		0004	:	
			İ	х	Integr. & Test to CPC Level	644033			Х	0004		
				П								
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LINE NO.	1	2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			П	3	T	Test		44424B	П		х	0004		
				2		Test		54424B			х	0004		
					х	Test at the CPC & CPCI Le	vels	644034			x	0004		
	l				Х	Develop SW Test Procedure	s	644035			х	0004		
					Х	Support Test & Verificati	on	644036			х	0004		
					x	Prepare Test Reports		644037			х	0004		
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			П	X		Documentation	44425B	Х				0004	
			П	1	ĸ	Prepare As-built Documentation	54425B	х				0004	
		Ì			Х	CPCI Listings As-built	644039	Х				0004	
					х	Prepare Programmer's Manual (Final)	644040	Х				0004	
		İ	$\  \ $	l	х	Prepare Inputs to Training Manuals	644041	Х				0004	
					Х	Prepare As-built Part II Specs.	644042	х				0004	
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NO.	w 1 2 3			EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
NO.			x x x		ts - IOC  pecs.  Specs. and eviews  r's Manual inal)		x x x x	X	X	I .		NUMBER

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LINE	1		VO F			EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			x			Test		44424C	х	1			0004		
			١	х	1	Test		54424C	x				0004		
		Ш			х	Test at the CPC & CPCI Lev	vels	644048	х				0004		
		$\  \ $			х	Develop SW Test Procedures	S	644049	х				0004		
		Ш			х	Support Test & Verification	on	644050	х	l			0004		
					х	Prepare Test Reports		644051	х				0004		
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LINE NO.	1				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	חביים ח	MANIE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X		Documentation		44425C	x	- [		0004		

	wo	RK	В	RE.	AK	DOWN STRUCTURE INDEX	PROGRAM N	PIC D/C SEGMEN	T				RFP NO. 82-B CONTRACT		DATE: 2-24-82
LINE NO.	1				BR	EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	FS/DEV	AANIIE	TECT	3	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			x			BMANIP CPCI: Data Manipulation -	- IOC	344203	х				0004		
			K			Critical Design		44422D	Х		l		0004		
			1	X	Н	Prepare Build-to Design S <sub>l</sub>	•	54422D	Х				0004	]	
					X	Prepare Build-to Part II S Conduct Internal Design Re	Specs. and eviews	644057	Х				0004		
					Х	Prepare Prelim. Programmen	's Manual	644058	х				0004		
			l		Х	Prepare CPCI Test Plan (Fi Appendix for BMANIP	inal)	644059			x		0004		
			k			Development		44423D	Х				0004		
				x		Develop CPC's		54423D	х				0004		
					X	Code & Unit Test		644060		x			0004		
					X	Integr. & Test to CPC Leve	1	644061			х		0004		
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LINE NO.	1	w [2]:			REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	X		Test		44424D			х	0004		
				x	Test		54424D			х	0004		
				,	Test at the CPC & CPCI Lev	vels	644062	l		х	0004		
				1	Novelop SW Test Procedures	3	644063			х	0004		
				2	Support Test & Verification	n	644064			x	0004		
				2	Prepare Test Reports		644065			x	0004		
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LINE	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS,	TASKS	WBS CODE NO.	ES/DEV	ANUF	TEST	L	CONTRACT INE TEM	SOW PARA. NO.	SPECIFICATION NUMBER
		1	x		Ť	Documentation		44425D	x	2	╏	+-	0004		
				x		Prepare As-built Documenta	tion	54425D	x				0004		
					х	Prepare Inputs to User, Ope and Data Base Admin. Manua	erator	644066	х				0004		
-	l				х	CPCI Listings As-built		644067	х				0004		
İ					х	Prepare Programmer's Manual	(Final)	644068	х				0004	·	
					х	Prepare Inputs to Training	Manuals	644069	х				0004		
					х	Prepare As-built Part II Sp	ecs.	644070	х				0004		
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L	w	ORK E	REA	KD	OWN STRUCTURE INDEX	PROGRAM N	PIC D/C SEGMEN	r				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	Q	WC			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANIE	TEST	1531	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X	x	x x x	BSTATR CPCI: Statistics Reporting Critical Design Prepare Build-to Design Sp Prepare Build-to Part II S Conduct Internal Design Re Prepare Prelim. Programmer Prepare CPCI Test Plan (Fi Appendix for BSTATR Development Develop CPC's Code & Unit Test Integr. & Test to CPC Level	pecs. pecs. and views 's Manual nal)	1	x x x x	X	X		0004 0004 0004 0004 0004 0004 0004 000	NO.	

	woı	RKI	BRE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	III			6 BF	REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	T	x		Test		44424E		<b> </b>		0004		
	$\  \ $			ĸ	Test		54424E			ĸ	0004		
	$\  \ $			x	Test at the CPC & CPCI Le	vels	644076		3	κ	0004		
	Ш			х	Develop SW Test Procedure	s :	644077		þ	ĸ	0004		
		$\cdot  $	$\  \ $	x	Support Test & Verificati	on	644078			ζ	0004		
		1		х	Prepare Test Reports		644079		þ	۲	0004		
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LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS,	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	$\prod$		X		Documentation		44425E	х			0004	7	
		$\cdot$	2	4	Prepare As-built Document	ation	54425E	х			0004		
				X	CPCI Listings As-built		644082	х			0004		
				x	Prepare Programmer's Manua	al (Final)	644083	х	П		0004		
			١	х	Prepare As-built Part II S	Specs.	644085	Х			0004		
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LINE NO.						EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANITE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
NO N	1	2	X X	X	6 X X	BMMGMT CPCI: Materials Management Critical Design Prepare Build-to Design Sp Prepare Build-to Part II Sc Conduct Internal Design Re Prepare Prelim. Programment	pecs. Specs. and eviews r's Manual	344206 44422G 54422G 644100 644101 644102 44423G 54423G	X X X X X		X	1		
					x	Code & Unit Test Integr. & Test to CPC Leve	el	644103 644104		Х	X	0004		

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WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS		wc	RK	BR	EΑ	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
X   Test	LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS,	/TASKS		DES/DEV	MANUF	3	LINE	PARA.	
	NO	1	2	3 4 X	Х	X X	Test at the CPC & CPCI Levelop SW Test Procedures Support Test & Verification	s	44424G 54424G 644105 644106 644107	DES	x x x		0004 0004 0004 0004 0004	NO.  These test erroneouslin WBS #54	y budgeted 423G,

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	LINE NO.	1	2					EAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	<b>JES/DEV</b>	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
Ì		Γ		Ī	X			Documentation		X		Ė	0004		
						X		Prepare As-built Documentation	54425G	X			0004		
							x	CPCI Listings As-built	644110	X			0004		
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LINE NO.	1	W(			EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		x			BCCNTR CPCI: Command & Control -	- IOC	344207	х			0004		
	$\  \ $		x	1	Critical Design		44422H	х			0004		
1			2	K	Prepare Build-to Design Sp	pecs.	54422Н	х			0004		
				X	Prepare Build-to Part II : Conduct Internal Design Ro		644114	х			0004		
				Х	Prepare Prelim. Programme	r's Manual	644115	х			0004		
	X Prepare CPCI Test Plan (Fin				Prepare CPCI Test Plan (F: Appendix for BCCNTR	inal)	644116			Х	0004		
			x		Development		44423Н	х			0004		
1			2		Develop CPC's		54423Н	х			0004		
1			١	Х	Code & Unit Test		644117		х		0004		
				Х	Integr. & Test to CPC Leve	el	644118			х	0004		
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	wc	RK	ВР	ΕA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	,			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1		VOF			EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			k			Test		44424H	Γ	П	Х	0004		
		$\  \ $	۱	х		Test		54424Н			х	0004		1
					х	Test at the CPC & CPCI Lev	vels	644119			х	0004		
			1		x	Develop SW Test Procedures	5	644120			х	0004		
			l		х	Support Test & Verification	on	644121			х	0004		
		$ \  $			x	Prepare Test Reports		644122			х	0004		
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LINE	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DESTOEV	MANIF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			×		П	Documentation		44425Н	х		T	0004		
	İ		$\ $	х		Prepare As-built Document	ation	54425Н	х			0004		
					х	Prepare Inputs to User, O		644123	x			0004		
			$\  \ $	1	х	CPCI Listings As-built		644124	х			0004		
ı	l				х	Prepare Inputs to Trainin	g Manuals	644126	х			0004		
	1				x	Prepare As-built Part II	Specs.	644127	х			0004		
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	WORK BREAKDOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/T	ASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/T  1 2 3 4 5 6  BQUERY CPCI: Query - IOC  Critical Design  Prepare Build-to Design Sp.  X Prepare Build-to Part II Sp. Conduct Internal Design Rev  X Prepare Prelim. Programmer  X Prepare CPCI Test Plan (Final Appendix for BQUERY  Development  X Develop CPC's  X Code & Unit Test  X Integr. & Test to CPC Level	ecs. pecs. and views 's Manual nal)	344208 44422I 54422I 644128 644129 644130 44423I	x x x x x	x	X	LINE	PARA.	NUMBER
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LINE NO.	1	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	T	х	T	T	Test		44424I		1 1	Х	0004		,
	П	X Test				54424I			х	0004				
			П	١	x	Test at the CPC & CPCI Le	vels	644133			х	0004		
			П		x	Develop SW Test Procedure	s	644134			х	0004		
		ı			x	Support Test & Verification	on	644135			х	0004		
					x	Prepare Test Reports		644136			х	0004		
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LINE NO.	1]2				EAKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	T	x	Ī	Documentation		444251	Х	7-	П	0004		
	$\  \ $		2	۱	Prepare As-built Documenta	ntion	544251	х			0004		
				X	Prepare Inputs to User, Op Data Base Administration N	perator and Manuals	644137	х			0004		
				x	CPCI Listings As-built		644138	х			0004	-	
				х	Prepare Programmer's Manua	ıl (Final)	644139	х			0004		
				х	Prepare Inputs to Training	g Manuals	644140	х	l		0004		
				x	Prepare As-built Part II S	Specs.	644141	х			0004		
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HNI H	NO.	W				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		2 3	x	X	ζ.	BAPPLS CPCI: Applications Support Critical Design Prepare Build-to Design Sp Prepare Build-to Part II S Conduct Internal Design Re Prepare Prelim. Programmer Prepare CPCI Test Plan (Fi Appendix for BAPPLS Development Develop CPC's Code & Unit Test Integr. & Test to CPC Leve	pecs. Specs. and eviews c's Manual anal)	44422J 54422J 644142 644143 644144 44423J	x x x x	x	x	0004 0004 0004 0004 0004 0004 0004 000	NO.	

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LINE	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X			Test		44424J		П	X	0004		
	1			x		Test		54424J			x	0004		
					х	Test at the CPC & CPCI Lev	vels	644147			x	0004		
					х	Develop SW Test Procedures	3	644148			x	0004		
	ŀ				x	Support Test & Verification	on	644149			x	0004		
					x	Prepare Test Reports		644150			x	0004		
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	NO.		wo			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONT LINE ITEM	RACT	SOW PARA. NO.	SPECIFICATION NUMBER
F					П	Documentation		44425J	Х	П		000	4 \		
				x		Prepare As-built Documenta	ntion	54425J	Х			000	4		
١					х	CPCI Listings As-built		644152	х			000	4	These docur	mentation costs
			$\  \ $		х	Prepare Programmer's Manua	ıl (Final)	644153	х			000	4 }	were errone	eously budgeted 423J, Develop
			Ш		x	Prepare Inputs to Training	g Manuals	644154	х			000	4	CPC's, page	≥ 107.
l					х	Prepare As-built Part II S	Specs.	644155	X			000	4		
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LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANIF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
LINE NO.	1	2			x x	BDMAPS CPCI: DBM Application Sup Critical Design Prepare Build-to Design Sp Prepare Build-to Part II Sc Conduct Internal Design Re Prepare Prelim. Programmer Prepare CPCI Test Plan (Fi Appendix for BDMAPS Development Develop CPC's Code & Unit Test	oport - IOC oecs. Specs. and eviews e's Manual anal)	344210 44422K 54422K 644156 644157 644158	x x x x	x	X	LINE	PARA.	NUMBER
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	LINE NO.	11	v 2				REAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
Ì			Ť	x	T	Ĭ	Test	44424K	Ī	Т	X	T	0004		
					X	1	Test	54424K			x		0004		
						х	Test at the CPC & CPCI Levels	644161			х		0004		
					l	x	Develop SW Test Procedures	644162			x		0004		
I						x	Support Test & Verification	644163			x		0004		
۱						x	Prepare Test Reports	644164			x		0004		
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LINE	<u> </u>		VOR			AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DESTOEV	MANIE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	х	П	T	Documentation		44425K	х		T	T	0004		
	1			х		Prepare As-built Documenta	ation	54425K	x				0004		
					x	CPCI Listings As-built		644166	x				0004		
		$\  \ $			x	Prepare Programmer's Manua	al (Final)	644167	x				0004		
		$\ $			x	Prepare Inputs to Training	g Manuals	644168	х				0004		
					X	Prepare As-built Part II S	Specs.	644169	x				0004		
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LINE	NO.	W(			REAKDOWN STRUCTURE ELEMEN	TS/TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		) x	X X	X	BTTDEV CPCI: Test & Training Critical Design Prepare Build-to Design K Prepare Build-to Part I Conduct Internal Design K Prepare Prelim. Program K Prepare CPCI Test Plan Appendix for BTTDEV Development Develop CPC's Code & Unit Test	Specs. I Specs. and Reviews mer's Manual (Final)	344211 44422L 54422L 644170 644171 644172 44423L 54423L 644173 644174	x x x x	X	x	0004 0004 0004 0004 0004 0004 0004 000		

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	LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			k		П	Test		44424L	Ť	1	x	0004		
	٠			х		Test		54424L			X	0004		
ı					х	Test at the CPC & CPCI Lev	vels	644175			x	0004		
					х	Develop SW Test Procedures	<b>3</b>	644176			X	0004		
					х	Support Test & Verification	on	644177	ĺ		x	0004		
l					х	Prepare Test Reports		644178			x	0004		
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LINE NO.			wo [3]			EAKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	FS/DEV	AANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ť	†	Ĭ	+	ď	Documentation		44425L	X	1=	-	0004	ļ	-
				x		Prepare As-built Documenta	ition	54425L	x	İ		0004		
					х	Prepare Inputs to User, Op Data Base Admin. Manuals	perator and	644179	x			0004		
					х	CPCI Listings As-built		644180	x			0004		
			Н		x	Prepare Programmer's Manua	ıl (Final)	644181	x			0004		
					х	Prepare Inputs to Training	Manuals	644182	х	İ		0004		
1				ł	х	Prepare As-built Part II S	pecs.	644183	х			0004		
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					DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	-			RFP NO. <u>82-</u> CONTRACT		DATE: 2-24-82
Q					EAKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х			WAPPLS	cations - IOC	344212	х			0004		
		l	x	ı	Critical Design		44422M	Х			0004		
			2	x	Prepare Build-to Design Sp	ecs.	54422M	Х			0004		
				2			644184	Х			0004		
				2	Prepare Prelim. Programme	r's Manual	644185	Х			0004		
				2	Prepare CPCI Test Plan (F: Appendix for WAPPLS	inal)	644186			х	0004		
			x		Development		44423M	Х	$\  \ $		0004		
	١		,	x	Develop CPC's		54423M	х			0004		
				12	Code & Unit Test		644187		x		0004		
			1	7	Integr. & Test to CPC Leve	<b>e</b> 1	644188			x	0004		
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1													
	ON	O2 1 2	O 1 2 3	X X	X X X X X X X X X X X X X X X X X X X	WAPPLS CPCI: Work Station Applic Critical Design  X Prepare Build-to Design Sp X Prepare Build-to Part II S Conduct Internal Design Re X Prepare Prelim. Programmen X Prepare CPCI Test Plan (Fi Appendix for WAPPLS Development X Develop CPC's X Code & Unit Test	WAPPLS CPCI: Work Station Applications - IOC Critical Design Prepare Build-to Design Specs.  X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews X Prepare Prelim. Programmer's Manual X Prepare CPCI Test Plan (Final) Appendix for WAPPLS Development X Develop CPC's X Code & Unit Test	WAPPLS CPCI: Work Station Applications - IOC 344212  Critical Design 44422M  Prepare Build-to Design Specs. 54422M  X Prepare Build-to Part II Specs. and 644184  Conduct Internal Design Reviews  X Prepare Prelim. Programmer's Manual 644185  X Prepare CPCI Test Plan (Final) 644186  Appendix for WAPPLS  Development 44423M  X Code & Unit Test 644187	WAPPLS CPCI: Work Station Applications - IOC  X Critical Design  Prepare Build-to Design Specs.  X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews  X Prepare Prelim. Programmer's Manual  X Prepare CPCI Test Plan (Final) Appendix for WAPPLS  Development  X Develop CPC's  X Code & Unit Test  A4423M  X Code & Unit Test  A4423M  X Code & Unit Test  A4423M  X Code & Unit Test  A4423M  X Code & Unit Test  A4423M  X Code & Unit Test	WAPPLS CPCI: Work Station Applications - IOC 344212 X  Critical Design 44422M X  Prepare Build-to Design Specs. 54422M X  X Prepare Build-to Part II Specs. and 644184 X  Conduct Internal Design Reviews  X Prepare Prelim. Programmer's Manual 644185 X  X Prepare CPCI Test Plan (Final) 644186  Appendix for WAPPLS  Development 44423M X  X Code & Unit Test 644187 X	WAPPLS CPCI: Work Station Applications - IOC 344212 X  Critical Design 44422M X  X Prepare Build-to Design Specs. 54422M X  X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews  X Prepare Prelim. Programmer's Manual 644185 X  X Prepare CPCI Test Plan (Final) 644186 X  Appendix for WAPPLS  Development 44423M X  X Code & Unit Test 644187 X	X	X

WBS CODE NO.

DATE: 2-24-82

NUMBER

SPECIFICATION

RFP NO. <u>82-B-015</u>

SOW PARA.

CONTRACT NO.

CONTRACT LINE ITEM

PROGRAM

WORK BREAKDOWN STRUCTURE INDEX

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

158	L						CODE NO.	100	112	S		17514	1	
1-2	1	2	3 4	5	6			قا	įΣ	TES	L	ITEM	NO.	
			X		Ш	Test	44424M			x		0004		
			ŀ	Х		Test	54424M			x		0004		
		$\  \ $			х	Test at the CPC & CPCI Levels	644189			х		0004		
					х	Develop SW Test Procedures	644190			х		0004	`	
					х	Support Test & Verification	644191			х		0004		
					x	Prepare Test Reports	644192			x		0004		
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	wo	RK	BR	EΑ	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	7			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.			/OR			AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	x	П		Documentation		44425M	х			0004		
		1	ı	х		Prepare As-built Documenta	ation	54425M	х	ĺ		0004		
	ľ				x	Prepare Inputs to User, Or Data Base Administration M	perator and Manuals	644193	x			0004		
					x	CPCI Listings As-built		644194	х			0004		
					x	Prepare Programmer's Manua	al (Final)	644195	х			0004		
					Х	Prepare Inputs to Training	g Manuals	644196	х			0004		
	П				x	Prepare As-built Part II S	Specs.	644197	х			0004		
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	WC	DRE	B	RE	٩KI	DOWN STRUCTURE INDEX	NPIC D/C SEGMEN	Γ				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.		2				EAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DESTORY	MANITE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Γ		X	1		Test	44424N	Ī	T	х	Π	0004		
			ı	x		Test	54424N	l	l	x		0004		
l		П			x	Test at the CPC & CPCI Levels	644203	Ì		x		0004		
		П	1		х	Develop SW Test Procedures	644204			x		0004		
		Ш	1		х	Support Test & Verification	644205			x		0004		
					х	Prepare Test Reports	644206		İ	Х		0004		
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LINE	2	12				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			2		П	Documentation		44425N	х	T			0004		
				Х		Prepare As-built Document	ation	54425N	Х				0004	1	
					х	CPCI Listings As-built		644208	х				0004	<u> </u>	
				ı	Х	Prepare Programmer's Manu	al (Final)	644209	Х				0004		
					x	Prepare Inputs to Trainin	g Manuals	644210	х				0004		
İ					X	Prepare As-built Part II	Specs.	644211	Х				0004		
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	LINE NO.		wo			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х		T	П	Software Development (FOC)		245000	х	П		0005		
			x			Software Development Manag	gement	345100	х			0005		
١				ζ		Software Development Manag	gement	445100	х			0005		
				х		Manage All SW Devel. Activ	vities	545100	х			0005		
					х	Manage All SW Devel. Activ	vities	645001	х			0005		
	•			х		Provide & Enforce Program Coding & Test Practices, S Conventions		545101	х			0005	Reserved	
ı			$\ $	x		Software Architecture		545102	х	$\  \ $		0005		
1			П		х	Software Engineering		645004	х			0005		
					х	Tech. Support to Subcontra	ict Mgm't.	645005	х			0005	Reserved	

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			Х	Software Control	645008	Х		0005		
			ĸ	Library Control	545103	х		0005		
			х	Software Builds & Releases	645009	X		0005		
			K	Provide Inputs to Segment Devel. Plan	545104	Х		0005	Reserved	ı
۱			х	Provide Inputs to Segment Devel. Plan	645010	х		0005	Reserved	
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	 _		_	_	T	<del></del>	-					
		$\ $		ζ	Data Base Implementation (FOC)	545105	Х			0005	Reserved	
		П		X	Data Base Package	645013	Х			0005	Reserved	
				x	Data Base Support to Development and Test & Verification	645014	Х			0005	Reserved	
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	W	OR F	( BF	REA	.KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE	S	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X			BMMGMT CPCI: Materials Management Critical Design	nt - FOC	345200 44522A	X X			0005 0005		
				х		Prepare Build-to Design Sp	pecs.		X	ł		0005		
					X	Prepare Build-to Part II S Conduct Internal Design Re		645015	Х			0005		
					X	Prepare Prelim. Programmen	's Manual	645016	X	١		0005		
					X	Prepare CPCI Test Plan (Fi Appendix for BMMGMT	inal)	645017			х	0005		
			k			Development		44523A	х			0005		
				Х		Develop CPC's		54523A	х			0005		
	İ		l		x	Code & Unit Test		645018		Х		0005		
				П	X	Integr. & Test to CPC Leve	el	645019			Х	0005		
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LINE NO.	1	v 2]				EAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DESTOEV	MANIE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATIO NUMBER
·		I	k			Test	44524A	T		х		0005		
				x		Test	54524A		l	x		0005		
					х	Test at the CPC & CPCI Levels	645020			x		0005		
					х	Develop SW Test Procedures	645021		١	x		0005		
					х	Support Test & Verification	645022			х		0005		
					х	Prepare Test Reports	645023		l	x		0005		
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LINE NO.	1				REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	ES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ	+	X	Ť	Documentation		44525A	X	1			0005		
<b>.</b>				x	Prepare As-built Document	ation	54525A	x				0005		
				]	Prepare Inputs to User, O Data Base Administration	perator and Manuals	645024	X				0005		
			H	;	CPCI Listings As-built		645025	x				0005		
		Ì		;	Prepare Programmer's Manu	al (Final)	645026	х				0005		
			П	,	Prepare Inputs to Trainin	g Manuals	645027	x				0005		
			П	)	Prepare As-built Part II	Specs.	645028	x				0005		
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LINE NO.	1				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ		χ	Ť	Documentation		44525B	x	1 1	1	0005		
	$\  \ $			x	Prepare As-built Documenta	ation	54525B	x	$\ $		0005		
1	$\  \ $			x	CPCI Listings As-built		645039	Х	$\  \ $		0005		
Ì	П		$\  \ $	x	Prepare Programmer's Manua	al (Final)	645040	х			0005		
			$\  \ $	х	Prepare As-built Part II S	Specs.	645042	х			0005		
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LINE NO.		2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			x			BTTDEV CPCI: Test & Training - 1	FOC	345202	х			0005		
						Critical Design		44522C	х	l	i	0005		
	l			3		Prepare Build-to Design S	pecs.	54522C	х	İ		0005		
					X	Prepare Build-to Part II Conduct Internal Design R	Specs. and eviews	645043	Х			0005		
				۱	X	Prepare Prelim. Programme	r's Manual	645044	х			0005		
					X	Prepare CPCI Test Plan (F Appendix for BTTDEV	inal)	645045			Х	0005		
						Development		44523C	х			0005		
Ī				2		Develop CPC's		54523C	X			0005		
		H			X	Code & Unit Test		645046		Х		0005		
		П			X	Integr. & Test to CPC Leve	el	645047			х	0005		
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	LINE NO.	11		OR			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				Х	П	T	Test		44524C			х	0005		
				l	х		Test		54524C			x	0005		
				l		х	Test at the CPC & CPCI Lev	vels	645048			х	0005		
ı				١		x	Develop SW Test Procedures	3	645049			х	0005		
			1			x	Support Test & Verification	on	645050			х	0005		
				1		x	Prepare Test Reports		645051			х	0005		
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LINE	Š.	1 2				AKDOWN STRUCTURE ELEMENTS	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			K	:		Documentation		44525C	х			0005		
		1		х		Prepare As-built Documenta	ation	54525C	х			0005		
					х	Prepare Inputs to User, Op Data Base Admin. Manuals	perator and	645052	х			0005		
				İ	х	CPCI Listings As-built		645053	х			0005		
					х	Prepare Programmers Manual	, Final	645054	х		1	0005	·	
					х	Prepare Inputs to Training	Manuals	645055	х			0005		
					Х	Prepare As-built Part II S	Specs.	645056	х			0005		
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LINE NO.	11	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS					TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	х	Ī	П	1	Hardware Development (BOC)		246000	х	1	T	Γ	0006		
:		1	x			Hardware Development Manag	ement BOC	346100	х				0006		
	Ш		k			Hardware Development Manag	ement BOC	446100	х				0006		
l	$\  \ $			x		Manage All Hardware Develo	pment	546100	x				0006		
ľ					х	Manage All Hardware Develo	pment	646100	х				0006		
		į		х		Set and Maintain HW Design Test Practices, Standards	, Fab and & Conventions	546101	х				0006	Reserved	
				х		Provide Inputs to Segment	Devel. Plan	546102	Х				0006	Reserved	
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LINE NO.	11	w 2 3				AKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	Т	x	T	T	CI: Basic IWS (BOC)		346200	х			Г	0006		
			k		-	Prelim. Design		446210	х	l			0006		
				х		Accomplish Prelim. CI Designalysis and Allocation	ign and Reqmts.	546210	Х				0006	No Labor	
					X	Accomplish Prelim. CI Designalysis and Allocation	ign and Reqmts.	646200	х				0006		
				Х		Prepare CI Specifications Internal Design Reviews	and Conduct	546211	Х				0006	Reserved	
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	wo	RK E	BRE	AKI	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	ES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ	2 3	2	X	Accomplish Prelim. Design Product Modifications	of Commercial	546212	X	=		0006	Reserved	
			x		Critical Design		446220	х			0006		
			2	x	Accomplish Detailed Design	n of CI	546220	х			0006	No Labor	
				x	Accomplish Detailed Design	n of CI	646203	х			0006		
			2	ζ	Prepare Build-to Component Conduct Internal Design Ro		546221	х			0006	No Labor	
			2	ζ	Accomplish Critical Design Product Modifications	n of Commercial	546223	х			0006	Reserved	
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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	k	Ī		Development		446230	х		П	0006		
				x		Accomplish Fab. of All Man	nufactured HW	546230		x		0006	No Labor	
		$\  \ $			х	Accomplish Fab. of All Man	nufactured HW	646206		х		0006		
1				x		Accomplish Modif. of Commo	ercial Products	546231		x		0006	Reserved	
				х		Prepare As-built Component	t Specs.	546232	х			0006	Reserved	
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NO.	1 2					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	T		X			Test		446240		Т	х	0006		
				х		Prepare Hardware Test & TE Test Procedures	EMPEST	546240			х	0006	No Labor	
					x	Prepare Hardware Test & TE Test Procedures	EMPEST	646212			х	0006		
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	NO.	W(			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
l			x		Test All HW at Component a Prior to Intergration (in	and CI Levels	546241		Т	х	0006	Reserved	
			х		Support Test and Verificat	tion	546242			х	0006	Reserved	
			x		Documentation		446250	х			0006		
			X		Prepare Equipment Operation Maintenance Manuals	on and	546250	Х			0006		
				х	Prepare Equipment Operation Maintenance Manuals	on and	646253	х			0006		
			Х		Prepare Inputs to Segment, Operations and User Manual		546251	х			0006	Reserved	
			x		Prepare Inputs to Training	g Manuals	546252	х			0006	Reserved	
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	44	2	3 4	5	6			9	ĮΣ	느	<u> </u>	11200	110.	
			x			CI: Enhanced IWS (BOC)	346201	X				0006		
			k			Prelim. Design	446211	X		İ		0006		
				X		Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546213	X				0006		
					X	Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646217	X				0006		
				Х		Prepare CI Specifications and Conduct Internal Design Reviews	546214	X				0006		
					X	Prepare CI Specifications and Conduct Internal Design Reviews	646218	X				0006		

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	NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/1					TASKS WBS CODE	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
l				x		Accomplish Prelim. Design Product Modifications	of Commercial	546215	Х			0006	Reserved	
				۲		Critical Design		446221	х			0006		
				x		Accomplish Detailed Design	of CI	546224	Х			0006	Reserved	
				х		Prepare Build-to Component Conduct Internal Design Re	Specs. and views	546225	Х			0006		
					Х	Prepare Build-to Component Conduct Internal Design Re	Specs. and views	646221	X			0006		
				Х		Accomplish Critical Design Product Modifications	of Commercial	546226	Х			0006	Reserved	
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	LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DESTOEV	MANUE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				k			Development		446231	х	1	Γ		0006	Reserved	
					х		Accomplish Fab. of All Mar	nufactured HW	546232		x			0006	Reserved	
					x		Accomplish Modif. of Comme	ercial Products	546233		x			0006	Reserved	
ı					х		Prepare As-built Component	Specs.	546234	х				0006	Reserved	
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CODE NO.

RFP NO. <u>82-B-015</u>

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CONTRACT NO.

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LINE

ITEM

DATE:

2-24-82 SPECIFICATION

NUMBER

PROGRAM

WORK BREAKDOWN STRUCTURE INDEX

Test

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

LINE NO.

	w	OR	KB	RE	AK	DOWN STRUCTURE INDEX	PROGRAM N	PIC D/C SEGMEN	т			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.			WC			REAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ī			2	K	Test All HW at Component Prior to Intergration (in	and CI Levels	546244	Ī		Х	0006	Reserved	
				2	ζ	Support Test and Verifica	tion	546245			x	0006		
					X	Support Test and Verifica	tion	646231		ļ	х	0006		
				x		Documentation		446251	х			0006		
				)	۲	Prepare Equipment Operation Maintenance Manuals	on and	546253	х			0006		
					X	Prepare Equipment Operation Maintenance Manuals	on and	646232	х			0006		
				3		Prepare Inputs to Segment, Operations and User Manual	/System ls	546254	X			0006		
					x	Prepare Inputs to Segment, Operations and User Manual	/System Ls	646233	Х			0006		
				X		Prepare Inputs to Training	g Manuals	546255	х			0006		
					Х	Prepare Inputs to Training	g Manuals	646234	Х			0006		
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	w	ORK	BREAK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	o Z		ORK BI	REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Y		CI: Full Capability (BOC)	)	346202	х			0006		
	1		x	Prelim. Design		446212	х	l		0006	Reserved	
			х	Accomplish Prelim. CI Desi Analysis and Allocation	ign and Reqmts.	546216	х			0006	Reserved	
			X	Prepare CI Specifications Internal Design Reviews	and Conduct	546217	x			0006	Reserved	
					·					,		
										·		
L_	$\perp$	Ш	Ш			7.00		Ц				

	W	OR I	( BI	REA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	T			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	Ñ.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Accomplish Prelim. Design Product Modifications	of Commercial	546218	х			0006	Reserved	
			X			Critical Design		446222	х			0006	Reserved	
				Х		Accomplish Detailed Design	of CI	546227	х			0006	Reserved	
				Х		Prepare Build-to Component Conduct Internal Design Re	Specs. and eviews	546228	Х			0006	Reserved	
				Х		Accomplish Critical Design Product Modifications	of Commercial	546229	х			0006	Reserved	
		$\  \ $												
		$\  \ $												

	w	OR	KE	RE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-8</u> CONTRACT N		DATE: 2-24-82
LINE NO.	-	2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANIF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				x	T	Development		446232	Х	1	T	0006	Reserved	
	1				x	Accomplish Fab. of All Mar	nufactured HW	546236		x		0006	Reserved	
					x	Accomplish Mod. of Commerc	cial Products	546237		x		0006	Reserved	
				1	х	Prepare As-built Component	Specs.	546238	x			0006	Reserved	
			1					į						

	wo	RK	BR	EΑ	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. 82-B CONTRACT		DATE: 2-24-82
LINE NO.		۷ 2]:				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		١	ĸ			Test		446242	Γ	т	х	0006	Reserved	
			Γ	x		Prepare Hardware Test & TF Test Procedures	EMPEST .	546246			X	0006	Reserved	
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W	ORK	BR	EA	KD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Γ			RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
NO.	N 1 2 :				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			х		Test All HW at Component a Prior to Intergration (inc	nd CI Levels 1. TEMPEST)	546247		×	۲	0006	Reserved	
	$\parallel \parallel$	İ	x		Support Test and Verificat	ion	546248		×	۲	0006	Reserved	
		K			Documentation		446252	х			0006		
			Х		Prepare Equipment Operatio Maintenance Manuals	n and	546256	х			0006		
			X		Prepare Inputs to Segment/ Operations and User Manual		546257	х			0006	Reserved	
			х		Prepare Inputs to Training	Manuals	546258	х		1 }	0006	Reserved	
				X	Prepare Equipment Operation and Maintenance Manuals		646250	X			0006	KESET VEG	

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	W	ORI	к в	RE	AK	DOWN STRUCTURE INDEX	PROGRAM	PIC D/C SEGMENT	Г			RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
LINE	ON 1		wo			REAKDOWN STRUCTURE ELEMEN	TS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х	П			Hardware Development (I	OC)	247000	х		T	0007		
			x	İ		Hardware Development Ma	nagement	347100	x			0007		
				١		Hardware Development Ma	nagement	447100	х	1		0007		
				2	2	Manage All Hardware Dev	elopment	547100	х			0007		
					x	Manage All Hardware Dev	elopment	647100	х			0007		
				)		Set and Maintain HW Des Test Practices, Standar	ign, Fab and ds & Conventions	547101	х			0007	Reserved	
				)	(	Provide Inputs to Segme	nt Devel. Plan	547102	х			0007	Reserved	
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	wo	RK	BR	EΑ	CDOWN STRUCTURE INDEX	OGRAM NP	IC D <b>/</b> C SEGMENT	r			RFP NO CONTRA			DATE: 2-24-82
LINE NO.	1	w 2 3			REAKDOWN STRUCTURE ELEMENTS/TAS	sks	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTR. LINE ITEM	ACT	SOW PARA. NO.	SPECIFICATION NUMBER
		1	4	П	CI: Basic IWS (IOC)		347200	X	П	1	0007			
			k		Critical Design		447220	х			0007		Reserved	
				Х	Accomplish Detailed Design of	E CI	547220	x			0007		Reserved	
				х	Prepare Build-to Component Sp and Conduct Internal Design F	ecs. Reviews	547221	X			0007		Reserved	
				Х	Accomplish Critical Design of Product Modifications	E Commercial	547222	х			0007		Reserved	

L	W	OR	KE	RE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	1				6 6	REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Development		447230	х			0007	Reserved	
					K	Accomplish Fab. of All Mar	nufactured HW	547230		k		0007	Reserved	
				2	K	Accomplish Modif. of Comme	ercial Products	547231		x		0007	Reserved	
					ζ	Prepare As-built Component	Specs.	547232	х			0007	Reserved	
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	w	ORI	< в	RE	AKI	DOWN STRUCTURE INDEX	PROGRAM NI	PIC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.					BR	REAKDOWN STRUCTURE ELEMEN	FS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
						Test		447240		_	х	0007	Reserved	
				3		Prepare Hardware Test & Test Procedures	TEMPEST	547240			x	0007	Reserved	

	wor	RK E	BRE	AKI	DOWN STRUCTURE INDEX	PROGRAM NP	PIC D/C SEGMENT	r			RFP NO. 82-E CONTRACT I		DATE: 2-24-82
LINE NO.	1	W(			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				ζ.	Test All HW at Component a Prior to Intergration (inc	and CI Levels	547241			х	0007	Reserved	
			2	2	Support Test and Verificat	ion	547242			х	0007	Reserved	
			x		Documentation		447250	х			0007		
			Σ		Prepare Equipment Operation Maintenance Manuals	on and	547250	X			0007		
			Σ		Prepare Inputs to Segment/ Operations and User Manual	System s	547251	X			0007	Reserved	
			2		Prepare Inputs to Training	Manuals	547252	х			0007	Reserved	
				х	Prepare Equipment Operation Maintenance Manuals	ons and	647212	х			0007		

WBS CODE NO. DATE: 2-24-82

SPECIFICATION NUMBER

RFP NO. <u>82-B-015</u>

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ITEM

PROGRAM

**WORK BREAKDOWN STRUCTURE INDEX** 

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

		X	Н	П	CI: Enhanced IWS - IOC	347201	Х		0007		
			x		Critical Design	447221	х		0007	Reserved	
			X		Accomplish Detailed Design of CI	547223	х		0007	Reserved	
			X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547224	х		0007	Reserved	
			Х		Accomplish Critical Design of Commercial Product Modifications	547225	х		0007	Reserved	
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LINE NO.

WBS

447231

CODE NO.

RFP NO. 82-B-015

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CONTRACT NO.

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DATE:

2-24-82 SPECIFICATION

NUMBER

PROGRAM

WORK BREAKDOWN STRUCTURE INDEX

Development

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

LINE NO.

123456

	wo	RK	BR	EA	KD	OOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1	۷ 2]:				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X	X		Test Prepare Hardware Test & Tr Test Procedures	EMPEST	447241 547243			x	0007	Reserved	

	۷	VOR	< BI	REA	KD	OWN STRUCTURE INDEX	PROGRAM NE	PIC D/C SEGMEN	T			RFP NO. 82-B CONTRACT N		DATE: 2-24-82
- INF	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				х		Test All HW at Component a Prior to Integration (incl	and CI Levels 1. TEMPEST)	547244			х	0007	Reserved	
	l			X		Support Test and Verificat	tion	547245			х	0007		
		H			х	Support Test and Verificat	tion	647226			x	0007		
			k			Documentation		447251	Х			0007		
				Х		Prepare Equipment Operation Maintenance Manuals	on and	547253	X			0007		
				X		Prepare Inputs to Segment/ Operations and User Manual	'System Ls	547254	Х			0007	Reserved	
				х		Prepare Inputs to Training	g Manuals	547255	x	l		0007	Reserved	
					х	Prepare Equipment Operation Maintenance Manuals	ons and	647227	х			0007		
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PROGRAM

	W	OR	< B	REA	KE	DOWN STRUCTURE INDEX	PROGRAM NP	PIC D/C SEGMEN	Γ			RFP NO. 82-E CONTRACT I		DATE: 2-24-82
LINE	ON	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			х			CI: Full Capability IWS -	IOC	347202	х			0007		
			x			Critical Design		447222	х			0007	No Labor	
				х		Accomplish Detailed Design	of CI	547226	х			0007		
					Х	Accomplish Detailed Design	of CI	647230	х			0007		
				Х		Prepare Build-to Component and Conduct Internal Desig	Specs. n Reviews	547227	х			0007	No Labor	
					X	Prepare Build-to Component and Conduct Internal Desig	Specs. n Reviews	647231	Х			0007		
				X		Accomplish Critical Design Product Modifications	of Commercial	547228	X			0007	No Labor	
					x	Accomplish Critical Design Product Modifications	of Commercial	647232	х			0007		
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	w	OR	ΚI	BRI	ΞΑŀ	DC	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.					< в		AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			Γ	ĸ	T	Т	Development		447232	Х	1		0007	Reserved	
					х		Accomplish Fab. of All Mar	nufactured HW	547236		x		0007	Reserved	
		İ		П	x		Accomplish Modif. of Comme	ercial Products	547237		x		0007	Reserved	
		۱			x		Prepare As-built Component	Specs.	547238	Х			0007	Reserved	
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\	wc	R	K	3R	EΑ	ΚŒ	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1				K (		EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		2	3	X	X	6	Test Prepare Hardware Test & THE Test Procedures	EMPEST	447242 547246			X X	0007 0007	Reserved Reserved	

PROGRAM

	wo	RK	BR	EAI	< D	OWN STRUCTURE INDEX	NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.		w 2 3				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				Х		Test All HW at Component a Prior to Integration (incl	nd CI Levels . TEMPEST)	547247		$\mathbf{I}$	Х	0007	Reserved	
	П			x		Support Test and Verificat	ion	547248			х	0007	Reserved	
		İ	Х			Documentation		447252	X			0007		
				Х		Prepare Equipment Operatio Maintenance Manuals	n and	547256	Х			0007		
					x	Prepare Equipment Operatio Maintenance Manuals	n and	647242	X			0007		
				х		Prepare Inputs to Segment/ Operations and User Manual	System s	547257	X			0007	Reserved	
				х		Prepare Inputs to Training	Manuals	547258	X			0007	Reserved	
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1 1815	NO.	1 2					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X	4			I	Hardware Development (FOC	)	248000	х	_	Γ	Γ	0008		
			X		١		Hardware Development Mana	gement	348100	х		ĺ		0008		
	İ			x	ı		Hardware Development Mana	gement	448100	х				0008		
		İ			x		Manage All Hardware Develo	opment	548100	х				0008		
						x	Manage All Hardware Devel	opment	648100	х				0008		
						x	Set and Maintain HW Design Test Practices, Standards	n, Fab and & Conventions	648101	х				0008	Reserved	
					х		Provide Inputs to Segment	Devel. Plan	548102	x				0008	Reserved	
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	LINE NO.	1					REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X	T		CI: Basic IWS - FOC		348200	х	1	T	0008		
			l	k			Critical Design		448220	x			0008	Reserved	
1				l	Х		Accomplish Detailed Design	of CI	548220	х			0008	Reserved	
			and Conduct Internal Desi				Prepare Build-to Component and Conduct Internal Desig	Specs. gn Reviews	548221	Х			0008	Reserved	
					x		Accomplish Critical Design Product Modifications	of Commercial	548222	х			0008	Reserved	
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	wo	RK	BF	EΑ	ΚC	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	-				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.		v 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	FS/DEV	ANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Ħ	1	x	Ħ	٦	Development		448230	X	1	F	┢	0008	Reserved	
				x		Accomplish Fab. of All Mar	ufactured HW	548230		X			0008	Reserved	
				x	١	Accomplish Modif. of Comme		548231	l	X			0008	Reserved	
		X Prepare As-built Componer					x	1			0008	Reserved			
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	w	OR	K B	RE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Γ			RFP NO. 82-B		DATE: 2-24-82
LINE NO.						REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	SES/DEV	MANUF	rest	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
LIN		2			5 6				DES/D		X X	LINE	PARA.	NUMBER

	\	WOF	ik i	BRE	Ak	DO	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	1]:					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANIJE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					х		Test All HW at Component a Prior to Integration (incl	and CI Levels	548241			х	0008	Reserved	
		X Support Test and Verificat Documentation X Prepare Equipment Operation			Support Test and Verificat	ion	548242			x	0008	Reserved			
					Documentation		448250	Х		١	0008				
		X Prepare Equipment Operation Maintenance Manuals					Prepare Equipment Operation Maintenance Manuals	on and	548250	Х			0008		
					Х		Prepare Inputs to Segment/ Operations and User Manual	System s	548251	х			0008	Reserved	
١					X		Prepare Inputs to Training	Manuals	548252	х			8000	Reserved	
					2		Prepare Equipment Operation Maintenance Manuals	ons and	648212	х			0008		

RFP NO. <u>82-B-015</u> CONTRACT NO. \_\_

DATE: 2-24-82

PROGRAM

WORK BREAKDOWN STRUCTURE INDEX

LINE NO.	WORK BREA	KDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	<b>JES/DEV</b>	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		CI: Enhanced IWS - FOC		Х	Ħ	Ť	0008		
		Critical Design	448221	X			0008	Reserved	,
	X A	Accomplish Detailed Design of CI	548223	X		İ	0008	Reserved	
	X F	Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548224	Х			0008	Reserved	
	X A	accomplish Critical Design of Commercial Product Modifications	548225	X			0008	Reserved	·
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	W	ORI	< в	RE	٩K	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	•				RFP NO. 82-B CONTRACT N		DATE: 2-24-82
LINE	<u> </u>	2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DESTORY	MANIE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	T		3	4	Γ	Development		448231	x			T	0008	Reserved	
				x		Accomplish Fab. of All Mar	ufactured HW	548233		x	l		0008	Reserved	
				Х		Accomplish Modif. of Comme	ercial Products	548234		k			0008	Reserved	
				х		Prepare As-built Component	Specs.	548235	x				0008	Reserved	
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LINE NO.	1	2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
						Test		448241			х	0008	Reserved	
				X		Prepare Hardware Test & T Test Procedures	EMPEST	548243		П	X	0008	Reserved	
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	wo	ORK	BR	EAI	(D(	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	-	V [2]				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				х	T	Test All HW at Component a Prior to Integration (incl	and CI Levels	548244			Х	0008	Reserved	
			l	х		Support Test and Verificat	ion	548245			x	0008	Reserved	
			X			Documentation		448251	х			0008		
				х		Prepare Equipment Operation Maintenance Manuals	on and	548253	х			0008	,	
				х		Prepare Inputs to Segment/ Operations and User Manual	System s	548254	х			0008	Reserved	
				Х		Prepare Inputs to Training	Manuals	548255	Х			0008	Reserved	
				Σ		Prepare Equipment Operatio Maintenance Manuals	ns and	648227	Х			0008		
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WBS CODE NO. DATE: 2-24-82

SPECIFICATION NUMBER

RFP NO. <u>82-B-015</u>

SOW

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CONTRACT NO. \_

CONTRACT

LINE

ITEM

PROGRAM

**WORK BREAKDOWN STRUCTURE INDEX** 

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

	$\overline{}$	_	_	-			_	 		1	1
	$\  \ $	x			CI: Full Capability IWS - FOC	348202	X		0008		
				$\  \ $	Critical Design	448222	х		0008		
		П	Х		Accomplish Detailed Design of CI	548226	х		0008	Reserved	
			Х		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548227	Х		0008	Reserved	
			Х		Accomplish Critical Design of Commercial Product Modifications	548228	X		. 0008		
				Х	Accomplish Critical Design of Commerical Product Modifications	648232	X		0008		
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LINE NO.

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,	wo	RK	BF	E	ĸε	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT					RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	FS/DEV	JANIE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П	Ť	X	Ť	Ĭ	Development		448232	X		Ť	T	0008	Reserved	
				X		Accomplish Fab. of All Mar	ufactured HW	548236		x			0008	Reserved	
				x		Accomplish Modif. of Comme	rcial Products	548237		x			0008	Reserved	
				x		Prepare As-built Component	Specs.	548238	х				0008	Reserved	
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	wo	RK	BR	EAI	KDO	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	-			RFP NO. 82-B CONTRACT N		DATE: 2-24-82
LINE NO.	1	w 2 3				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			Х			Test		448242		1 1	Х	0008	Reserved	
			Į.	X	-	Prepare Hardware Test & TR	EMPEST	548246			X	0008	Reserved	

	w	ORK	BR	EΑ	KD	OWN STRUCTURE INDEX	PROGRAM NP	PIC D/C SEGMENT	-				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1	v [2]				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Test All HW at Component a Prior to Integration (incl	and CI Levels L. TEMPEST)	548247			Х		0008	Reserved	
		X Support Test and Verificat Documentation			Support Test and Verificat	ion	548248			X	Ì	0008	Reserved		
					Documentation		448252	х				0008			
		Maintenance Manuals  X Prepare Inputs to Segment				Prepare Equipment Operation Maintenance Manuals	on and	548256	Х				8000		
		X Prepare Inputs to Segment/ Operations and User Manual				Prepare Inputs to Segment/ Operations and User Manual	System s	548257	Х				0008	Reserved	
				х		Prepare Inputs to Training	Manuals	548258	х				0008	Reserved	
					х	Prepare Equipment Operation Maintenance Manuals	ons and	648242	х				0008		

	wo	RK	BR	EA	ΚD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	Γ				RFP NO. <u>82-B</u> CONTRACT N	1	DATE: 2-24-82
LINE NO.		W 2				AKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANIF	TECT	3	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X				Automated Data Processing (ADPE) Hardware and Softw	Equipment are	249000	X			T	0009		
			X	İ		Procurement		349100	x	l	ĺ		0009		
	П		X			Management		449100	х			İ	0009	i	
	П			х		Management		549100	х				0009		
İ					X	Manage All ADPE Procurement	nt Activities	649100	х				0009		
	H				x	Manage All ADPE Procurement	nt Activities	649101	х	l			0009		
				-	x	Provide & Enforce All Prod Practices, Standards & Con	curement nventions	649103	X				0009		
					x	- BOC Provide & Enforce All Prod Practices, Standards & Cor - IOC	curement nventions	649104	х				0009		
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	V	VOR	ik i	BRE	ΞΑI	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	1 2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X		Procure ADPE (Include Labo Actual Equipment & Product	r Plus the Costs)	449101	Х			0009		
					x	Procure Commercial CPCI's		549101	х			0009		
					-	Project Labor to Support P - BOC	rocurement	649106	х			0009		
İ						Project Labor to Support P - IOC	rocurement	649107	х			0009		
١		j				Project Labor to Support P - FOC	rocurement	649108	х			0009	Reserved	
ı						Procurement - BOC		649109	Х			0009		
						Procurement - IOC		649110	Х			0009		
					X	Procure Commercial CI's		549102	Х			0009		
						- BOC	İ	649112	X			0009		
ı	İ					Project Labor to Support P - IOC	rocurement	649113	Х			0009		
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NPIC D/C SEGMENT

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649115

CODE NO.

RFP NO. 82-B-015

CONTRACT NO.

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0009

DATE:

2-24-82 SPECIFICATION

NUMBER

**PROGRAM** 

**WORK BREAKDOWN STRUCTURE INDEX** 

WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

Procure - BOC

LINE NO.

	٧	VOR	K	BRE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
IN	NO.	1 2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					X	Acceptance Test Commercia	l CI's	549201		1	x	0009	Reserved	

	١	VOF	ЗK	BR	EΑ	ΚĐ	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				 RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	1 :					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
l			];	4			GFE		349300	Х	_	T	0009		
		j	Ì	x			Install & Checkout GFE		449300	х			0009		
					х		Install & Checkout GFE		549300	х			0009	<b>b</b>	
					١	x	Install & Checkout GFE - F	вос	649300	х			0009	These G install	FE ation/checkout
۱				x			Provide GFE Maintenance	:	449301	х			0009	erroneou	ere usly hudgetod
					X		Provide GFE Maintenance		549301	х			0009	under WI this pag	BS 549301
١						x	Provide GFE Maintenance -	вос	649301	х			0009		
						x	Provide GFE Maintenance -	FOC	649303	х			0009		
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	٧	VOR	ΚB	RE	AKI	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				-	RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		x				Test and Verification - Bo	ос	241000		1 1	X		0010		
	ĺ		x			Test & Verification Manage	ement	341010	х				0010		
	l			ζ		Test & Verification Manage	ement	441010	х				0010		
	ŀ		$\  \ $	х		Test & Verification Manage	ement	541010	х				0010		
					х	Provide Mgm't. of Segment Activities - BOC	Test	641010	х				0010		
ı			$\  \ $		x	Prepare Test Plans - BOC		641011			х		0010		
					x	Prepare Test Procedures -	вос	641012			x		0010		
١					x	Prepare Test Plan for GFE - BOC	Equipment	641013			х		0010		
			X		Ш	Test Support		341020			Х		0010		
	į		Þ		Ш	Test Support		441020			х		0010		
ł	ŀ			X		Test Support		541020			х		0010		
					х	Provide Necessary Software Integrated Testing - BOC	to Support	641020			x		0010		
							,								

	wor	RK B	RE,	AKD	OOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	-				RFP NO. <u>82-8</u> CONTRACT N		DATE: 2-24-82
LINE NO.	11	wo 2]3]-			EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				х	Provide Necessary Hardware Integrated Testing - BOC	e to Support	641021	Ī		х		0010		
				х	Provide Necessary Data to Integrated Testing - BOC	Support	641022			x		0010		
		x			Integration Test		341030			x		0010		
		X		$\  \ $	Integration Test		441030			х	Ì	0010		
	Ш		x	$\  \ $	Integration Test		541030			x		0010		
	$\  \ $			x	Accomplish Inter-CI Testin	ng - BOC	641030			х		0010		
1		П		х	Accomplish Inter-CPCI Test	ing - BOC	641031			X		0010		
				х	Accomplish Integrated CPCI - BOC	C/CI Testing	641032			х		0010		
				х	Provide Integration Test R	eports - BOC	641033			х		0010		
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	LINE NO.	1 :					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П	7			T	Factory Preship Test		341040	Ī	П	x	0010		
				x			Factory Preship Test		441040			х	0010		
١			i		х		Factory Preship Test		541040			x	0010		
ĺ						x	Perform Formal Preship Tes	t - BOC	641040			x	0010		
l						x	Provide Preship Test Repor	t - BOC	641041			x	0010		
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1,41	NO E	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х	ĺ			Test and Verification - I	ос	241100	Γ	П	х	0011		
	l		Х			Test & Verification Manage	ment	341110	х			0011		
1			×			Test & Verification Manage	ment	441110	х			0011		
				х		Test & Verification Manage	ment	541110	х			0011		
					Х	Provide Mgm't. of Segment Activities - IOC	Test	641110	х			0011		
				l	х	Prepare Test Plans - IOC		641111			х	0011		
					х	Prepare Test Procedures -	10C	641112			x	0011		į į
				l	х	Prepare Test Plan for GFE	Equipment	641113			х	0011	Reserved	
			x			Test Support		341120			х	0011		
		$\  \ $	k	П		Test Support		441120			x	0011		
		$\  \ $		x		Test Support	,	541120			x	0011		
					х	Provide Necessary Software Integrated Testing - IOC	to Support	641120			x	0011		
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		WOF	RKI	BRE	AK	DOWN STRUCTURE INDEX	PROGRAM	PIC D/C SEGMENT	Γ			RFP NO. 82-B CONTRACT N		DATE: 2-24-82
	NO R	11:			5 6	EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					х	Provide Necessary Hardwar Integrated Testing - IOC	e to Support	641121		1	х	0011		
					х	Provide Necessary Data to Integrated Testing - IOC	Support	641122			х	0011		,
			X			Integration Test		341130			х	0011		
				X		Integration Test		441130			х	0011		
				2	4	Integration Test		541130			х	0011		
					X	Accomplish Inter-CI Testin	ng - IOC	641130			х	0011		
l					Х	Accomplish Inter-CPCI Test	ting - IOC	641131			х	0011		
					X	Accomplish Integrated CPCI - IOC	I/CI Testing	641132			х	0011		
			П		X	Provide Integration Test F	Reports - IOC	641133			x	0011		
			$\  \ $		Ш									
					П									
			П	l		٠.				-				
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					x x	Accomplish Inter-CI Testin Accomplish Inter-CPCI Test Accomplish Integrated CPCI - IOC	ting - IOC	641130 641131 641132			x x x	0011 0011 0011		

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LINE NO.	1	W [2]:				AKDOWN STRUCTURE ELEMENT	S/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
l			X			Factory Preship Test		341140	T		х	Γ	0011		
	١		x			Factory Preship Test		441140			х		0011	j	
				х		Factory Preship Test		541140			х		0011		
1					x	Perform Formal Preship To	est - IOC	641140		l	х		0011		
Ì					x	Provide Preship Test Repo	ort - IOC	641141			х		0011		
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LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	)	4			Test and Verification - F	oc	241200	Τ	Г	х		0012		
		X			Test & Verification Manage	ement	341210	x				0012		
		Ш	x		Test & Verification Manage	ement	441210	Х				0012		
		Ш	X		Test & Verification Manage	ement	541210	X				0012		
				Х	Provide Mgm't. of Segment Activities - FOC	Test	641210	х				0012		
			1	х	Prepare Test Plans - FOC		641211			х		0012	Reserved	
		П		х	Prepare Test Procedures -	FOC	641212			х		0012	Reserved	
		x	1	$\ $	Test Support		341220			х		0012	Reserved	
					Test Support		441220			х		0012	Reserved	
		$\  \ $	x		Test Support		541220			х	l	0012	Reserved	
				x	Provide Necessary Software Integrated Testing - FOC	e to Support	641220			x		0012	Reserved	
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LINE NO.		w 2 3				AKDOWN STRUCTURE ELEMENTS/	TASKS		WBS CODE NO.	DES/DEV	MANIF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				2	2	Provide Necessary Hardware Integrated Testing - FOC	to Support		641221		Ī	х	0012	Reserved	
				)		Provide Necessary Hardware Integrated Testing	e to Support		641222			х	0012	Reserved	
		7	11			Integration Test - FOC			341230			х	0012	Reserved	
			x			Integration Test			441230			х	0012	Reserved	
				x		Integration Test			541230			х	0012	Reserved	
				X		Accomplish Inter-CI Testin	8		641230			х	0012	Reserved	
				X	1	Accomplish Inter-CPCI Test	ing		641231			х	0012	Reserved	
				X		Accomplish Integrated CPCI	/CI Testing		641232			х	0012	Reserved	
				X		Provide Integration Test R	eports		641233			х	0012	Reserved	
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	NO.	1]:					AKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			7			T	Factory Preship Test - FOO	3	341240	Ī		X	0012	Reserved	
1				x			Factory Preship Test		441240		П	x	0012	Reserved	
					х		Factory Preship Test		541240			x	0012	Reserved	
						x	Perform Formal Preship Tes	st	641240			x	0012	Reserved	
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	LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUE	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ſ		Х		T	Ī	Installation, Checkout an	d Test - BOC	241300	T	T	Х	0013		
			х			Install., Checkout & Test	Management	341310	X			0013		
١			×			Install., Checkout & Test	Management	441310	х			0013		
l				х		Install., Checkout & Test	Management	541310	x			0013		
					x	Provide Management of Ins Checkout Activities - BOC	tallation and	641310	X			0013		
			х			Facility Planning - BOC		341320	х	İ		0013		
			k			Facility Planning		441320	x	l		0013		
				х		Facility Planning		541320	x			0013		
					х	Provide Facility Interfact Drawings/Requirements (IDN		641320				0013		
					Х	Provide Facility Planning	- BOC	641321				0013		
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	WOR	КВ	RE	AK	DOWN STRUCTURE INDEX	PROGRAM	NPIC D/C SEGMEN	Γ				RFP NO. 82-B CONTRACT N		DATE: 2-24-82
LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
1		х			Installation & Checkout -	вос	341330	х			Г	0013		
			ĸ		Installation & Checkout		441330	x				0013		
		П	Σ		Installation & Checkout		541330	X				0013		
		$\  \ $	l	x	Prepare Segment Shipping	Plan	641330	x				0013		
		П		x	Prepare Segment Installat	ion Plan	641331	x				0013		
				Х	Provide for Shipment, Ins	tallation nt Items	641332	Х				0013		
				х	Accomplish Segment Integrational	ation and Status	641333	X				0013		
		X			Site Segment Test - BOC		341340			х		0013		
		k		П	Site Segment Test		441340			х		0013		
			x		Site Segment Test		541340			X		0013		
				х	Perform Formal Site Segmen	nt Test	641340			х		0013		

	\	VOR	KB	RE	AK	DOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT				RFP NO. 82-B CONTRACT N		DATE: 2-24-82
	LINE NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
l			П	I	X	Provide Site Segment Test	Report	641341			х	0013		
		1	x		l	Site Inter-Segment Demos		341350	х		İ	0013		
				x		Site Inter-Segment Demos		441350	x			0013		
		X Site Inter-Segment Demos						541350	х			0013		
					x	Contribute to System Test Report to be Prepared by t	Plan and Test the SI - BOC	641350			ĸ	0013		
					х	Participate in On-Site Sys	tem Testing	641351		2	ĸ	0013		
			x			Inter-Program Demos		341360	х	-		0013		
						Inter-Program Demos		441360	х	1		0013		
1				x		Inter-Program Demos		541360	х	1		0013		
					х	Provide Input to Inter-Pro Demonstration Plan to be P by the SI - BOC	gram repared	641360	х			0013		
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,	w	)R	KE	BRI	ĒΑ	KD	OOWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT					RFP NO. 82-6 CONTRACT		DATE: 2-24-82
NO.					K E		EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DESTOEV	MANIE	TEST	5	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
						X	Support Program Demos - B	OC .		X				0013		

		wo	RK	BF	RE/	٩KI	OOWN STRUCTURE INDEX	PROGRAM NF	IC D/C SEGMEN	т				RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	1	v 2				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	ייייייייייייייייייייייייייייייייייייייי	MANITE	MANCE	3	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ļ			Х				Installation, Checkout and	l Test - IOC	241400	Ť		х	T	0014		
				x		П	Install., Checkout & Test	Management	341410			x		0014		
				x			Install., Checkout & Test	Management	441410			x		0014		
1					x		Install., Checkout & Test	Management	541410			x		0014		
						х	Provide Management of Inst Checkout Activities	allation and	641410	х				0014		
				l		х	Provide Test Plan		641411			Х		0014		
				×			Facility Planning - IOC		341420	х				0014		
				X			Facility Planning		441420	х			$  \  $	0014		
l					X		Facility Planning		541420	х				0014		
		İ				х	Provide Facility Interface Drawings/Requirements (IDR	s)	641420	х				0014		
						x	Provide Facility Planning		641421	x				0014		
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	wc	ORK	BRI	AK	DOWN STRUCTURE INDEX	PROGRAM NF	PIC D/C SEGMENT	-		<del></del>	RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE	2 1	w 23			REAKDOWN STRUCTURE ELEMENTS	:/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		:			Installation & Checkout -	IOC	341430	х			0014		
	l		x		Installation & Checkout		441430	х			0014		
				x	Installation & Checkout		541430	х			0014		
			Ш	Х	Prepare Segment Shipping	Plan	641430	х			0014		
				х	Prepare Segment Installat	ion Plan	641431	х			0014		
				х	Provide for Shipment, Ins and Checkout of All Segme	tallation nt Items	641432	Х			0014		
				Х	Accomplish Segment Integr Transition to Operational	ation and Status	641433	х			0014		
		7			Site Segment Test - IOC		341440			х	0014		
			x		Site Segment Test		441440			х	0014		
			:	X	Site Segment Test		541440			x	0014		
				Х	Perform Formal Site Segme	nt Test	641440			х	0014		
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	LINE NO.	113					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DESTOEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
İ					;	x	Provide Site Segment Test	Report	641441	T		x	0014		
			X	$\  \ $			Site Inter-Segment Demos -	· IOC	341450	1	x		0014		
				x			Site Inter-Segment Demos		441450	2	x		0014		
					x		Site Inter-Segment Demos		541450	)	x		0014		
					]	x	Contribute to System Test Report to be Prepared by t		641450			х	0014	·	
					1	ĸ	Participate in On-Site Sys	tem Testing	641451			х	0014		
			x		١		Inter-Program Demos - IOC	,	341460	2	×		0014		
ĺ				k			Inter-Program Demos		441460	2			0014		
1					х		Inter-Program Demos		541460	x			0014		
						K	Provide Input to Inter-Pro Demonstration Plan to be P by the SI		641460	х			0014		

	WORI	< BRE	AKD	OWN STRUCTURE INDEX	PROGRAM NP	IC D/C SEGMENT	r			RFP NO. <u>82-B</u> CONTRACT N		DATE: 2-24-82
LINE NO.	1 2	WORK		AKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	2	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X	Support Program Demos		641461	х			0014		

	V	VOR	КВ	RE.	AK	DOWN STRUCTURE INDEX	PROGRAM NP	TIC D/C SEGMENT	Γ			RFP NO. 82-B CONTRACT N		DATE: 2-24-82
LINE	NO.	1 2				REAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		х	П	T	Ī	Installation, Checkout and	Test - FOC	241500		П	х	0015		
			х			Install., Checkout & Test M	lanagement	341510	x		į	0015		
Ì		Install, Checkout & Test Mana					lanagement	441510	x			0015		
		X Install., Checkout & Test M					lanagement	541510	x			0015		
		X Provide Management of Insta Checkout Activities - FOC					llation and	641510			х	0015		
		X Facility Planning - FOC				Facility Planning - FOC		341520	x		l	0015		
				x		Facility Planning		441520	х			0015		
				x		Facility Planning		541520	х			0015	Reserved	
					Х	Provide Facility Interface Drawings/Requirements (IDRs	)	641520	х			0015	Reserved	
					х	Provide Facility Planning		641521	х			0015	Reserved	
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	LINE NO.						EAKDOWN STRUCTURE ELEMENTS,	/TASKS		WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			]				Installation & Checkout -	FOC		341530	х			0015		
		П		x			Installation & Checkout			441530	х			0015		
		П	۱	П	х	۱	Installation & Checkout			541530	х			0015		
		$\  \ $				x	Prepare Segment Shipping 1	Plan		641530	х			0015		
		П				x	Prepare Segment Installat:	ion Plan		641531	х		Ì	0015		
						x	Provide for Shipment, Instand Checkout of All Segmen	tallation nt Items		641532	х			0015		
199						x	Accomplish Segment Integra Transition to Operational	ation and Status		641533	х			0015		
			13				Site Segment Test - FOC			341540		)	۲	0015		
			1	x			Site Segment Test		İ	441540		>	ζ	0015		
		П	1		x		Site Segment Test			541540		2		0015		
						x	Perform Formal Site Segmen	nt Test	l	641540		2		0015		
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LINE NO.	11:					AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	JES/DEV	MANUF	ESI	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	П		П	Т	т	Provide Site Segment Test	Report	641541	Ť	$\neg$		0015		
		x				Site Inter-Segment Demos -	- FOC	341550	x			0015		
			x		ı	Site Inter-Segment Demos		441550	x			0015		
				x	١	Site Inter-Segment Demos		541550	x			0015		
					X	Contribute to System Test Report to be Prepared by t	Plan and Test the SI	641550		X		0015		
				İ	х	Participate in On-Site Sys	tem Testing	641551	П	x		0015		
		х				Inter-Program Demos - FOC		341560	x			0015		
			х			Inter-Program Demos		441560	х			0015		
				x		Inter-Program Demos		541560	х			0015		
					х	Provide Input to Inter-Pro Demonstration Plan to be P by the SI	gram Prepared	641560	х			0015		
	INE O.	INE 10	NO 1 2 3	WORI X X X X	WORK E 1 2 3 4 5 X X X X X X X	WORK BRE 1 2 3 4 5 6 X X X X X X X X X X X X X X X X X X	X Provide Site Segment Test Site Inter-Segment Demos - Site Inter-Segment Demos X Site Inter-Segment Demos X Contribute to System Test Report to be Prepared by t X Participate in On-Site Sys Inter-Program Demos - FOC Inter-Program Demos X Provide Input to Inter-Pro Demonstration Plan to be F	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  1 2 3 4 5 6  X Provide Site Segment Test Report Site Inter-Segment Demos - FOC Site Inter-Segment Demos X Site Inter-Segment Demos X Contribute to System Test Plan and Test Report to be Prepared by the SI X Participate in On-Site System Testing Inter-Program Demos - FOC Inter-Program Demos Inter-Program Demos X Provide Input to Inter-Program Demonstration Plan to be Prepared	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WBS CODE NO.  1 2 3 4 5 6  X Provide Site Segment Test Report 641541  Site Inter-Segment Demos - FOC 341550  X Site Inter-Segment Demos 541550  X Contribute to System Test Plan and Test Report to be Prepared by the SI  X Participate in On-Site System Testing 641551  Inter-Program Demos 441560  X Inter-Program Demos 541560  X Provide Input to Inter-Program 541560  X Provide Input to Inter-Program 641560  Demonstration Plan to be Prepared	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WBS CODE NO.  VORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WBS CODE NO.  VX Provide Site Segment Test Report  Site Inter-Segment Demos - FOC 341550 X  X Site Inter-Segment Demos 541550 X  X Contribute to System Test Plan and Test Report to be Prepared by the SI  X Participate in On-Site System Testing 641551  Inter-Program Demos 441560 X  Inter-Program Demos 541560 X  X Provide Input to Inter-Program 641560 X  Provide Input to Inter-Program 641560 X  Provide Input to Inter-Program 641560 X  Provide Input to Inter-Program 641560 X	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WBS CODE NO.    1 2 3 4 5 6   X   Provide Site Segment Test Report   641541   X   Site Inter-Segment Demos - FOC   341550   X   X   Site Inter-Segment Demos   541550   X   X   Site Inter-Segment Demos   541550   X   X   Site Inter-Segment Demos   541550   X   X   Site Inter-Segment Demos   541550   X   X   Site Inter-Segment Demos   541550   X   X   Participate in On-Site System Testing   641551   X   Participate in On-Site System Testing   641551   X   Inter-Program Demos   541560   X   X   Inter-Program Demos   541560   X   X   Provide Input to Inter-Program   641560   X   Demonstration Plan to be Prepared   641560   X   Contribute to Inter-Program   Contribute to Inter-Prog	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WBS CODE NO.  1 2 3 4 5 6  X Provide Site Segment Test Report 641541  X Site Inter-Segment Demos - FOC 341550  X Site Inter-Segment Demos 541550  X Contribute to System Test Plan and Test Report to be Prepared by the SI  X Participate in On-Site System Testing 641551  X Participate in On-Site System Testing 641560  X Inter-Program Demos 441560  X Inter-Program Demos 541560  X Provide Input to Inter-Program 641560  X Provide Input to Inter-Program 641560  X Provide Input to Inter-Program Demos 641560  X Provide Input to Inter-Program 641560  X Provide Input to Inter-Program 641560  X Provide Input to Inter-Program Demos 641560  X Provide Input to Inter-Program 641560	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  CODE NO. 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS   WBS CODE NO.   CONTRACT NO.   CONTRACT NO.   CODE NO.

	1	WOR	KBF	REA	<dc< th=""><th>OWN STR</th><th>uc</th><th>CTURE IND</th><th>EX</th><th>PROGRAM</th><th>NP</th><th>IC D/C SEGMEN</th><th>Г</th><th></th><th></th><th></th><th>RFP NO. <u>82-B-</u> CONTRACT N</th><th></th><th>DATE: 2-24-82</th></dc<>	OWN STR	uc	CTURE IND	EX	PROGRAM	NP	IC D/C SEGMEN	Г				RFP NO. <u>82-B-</u> CONTRACT N		DATE: 2-24-82
	LINE NO.	12	WOI			AKDOWN	N S	TRUCTUR	ELEMENTS/	TASKS		WBS CODE NO.	DES/DEV	MANUF	TEST	l L	CONTRACT LINE TEM	SOW PARA. NO.	SPECIFICATION NUMBER
201					x	Suppor	-t	Program	Demos			641561	X				0015		

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	LINE NO.	11:					EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ſ		]	K	П			Development and Test Faci	lity	241600	Ī	T,	х	0016		
			)	$\  \ $			Devel. & Test Facility Man	nagement	341610	х			0016		
				k			Devel. & Test Facility Man	nagement	441610	х			0016		
					X		Devel. & Test Facility Man	nagement	541610	х		1	0016		
						х	Provide Mgmnt., Planning & of Facilities Req'd. for A Human Eng'g., Devel., Test of All Segment Software &	Analysis, t and Integr.	641610	х			0016		
202						х	Provide Mgmnt., Planning & of Facilities Req'd. for A Human Eng'g., Devel., Test of All Segment Software &	Analysis, t and Integr.	641611	х			0016		
						х	Provide Mgmnt., Planning 8 of Facilities Req'd. for A Human Eng'g., Devel., Test of All Segment Software &	Analysis, and Integr.	641612	х			0016	Reserved	
			x		1	ļ	Devel. & Test Facility Ser	cvices	341620		)	ĸ	0016		
				x			Devel. & Test Facility Ser	rvices	441620		)	ĸ	0016		
ł					X	İ	Devel. & Test Facility Ser	vices	541620		2	ĸ	0016		
						Х	Devel. Necessary Software Support, etc. for Devel. & Facility - BOC		641620		2	х	0016		
					>		Devel. Necessary Software Spprt., etc. for Devel. &		641621		]2	x	0016		

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LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					Х	Develop Necessary Test Too for Devel. & Test Facility	ols, etc. 7 - BOC		х			0016		
					x	Develop Necessary Test Too for Devel. & Test Facility	ols, etc.	641623	x			0016		
							-							

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	NO.	WO			EAKDOWN STRUCTURE ELEMENTS/	TASKS	_	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		x			Equipment				х	1		0016		
					Equipment			441630	X			0016		
۱			Х		Equipment		l	541630	х			0016		
				Х	Provide ADPE Capable of Su the Devel. & Test Facility			641630	х			0016		
				х	Provide ADPE Capable of Su the Devel. & Test Facility	ipporting 7 - IOC		641631	х			0016	Reserved	
		x		$\  \ $	Operations & Maintenance			341640	х			0016		
		k		$\  \ $	Operations & Maintenance		-	441640	х			0016		}
			Х	П	Operations & Maintenance			541640	X			0016		
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	LINE NO.	1]:					EAKDOWN STRUCTURE ELEMENTS	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ľ		П				х	Operate the Devel. & Test	Facility - BOC	641640	Ī	1	Х	Г	0016		
Ì						х	Operate the Devel. & Test	Facility - IOC	641641			х		0016		
ł			l	l		x	Maintain the Devel. & Test	t Facility - BOC	641643			x		0016		
						х	Maintain the Devel. & Test	t Facility - IOC	641644	l		X		0016		
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LINE NO.		W [2]3				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		];	X	T	T	Subcontractor Devel. & Tes	st Facilities	341650		Т	х	0016		
			x			Subcontractor Devel. & Tes	st Facilities	441650			х	0016		
				x		Provide Management, Planni of Facilities	ing and Control	541650	х			0016		
				]:	X	Provide Management, Planni of Facilities - BOC	ng and Control	641650	Х			0016		
				]:	x	Provide Management, Planni of Facilities - IOC	ng and Control	641651	х			0016	Reserved	
				;	K	Provide Management, Planni of Facilities - FOC	ng and Control	641652	Х			0016	Reserved	
				x		Services		541651	х			0016	Reserved	
			П	1	4	Services - BOC		641653	х			0016	Reserved	
						Services - IOC		641654	х			0016	Reserved	
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ı				AKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
П	$\prod$	ТТ	Т	Services - FOC		I		П	T	0006	Reserved	
		х		Equipment		541652	х			0006	Reserved	
Ш			x	Equipment - BOC		641656	х			0006	Reserved	
Ш			X	Equipment - IOC		641657	х			0006	Reserved	
П			X	Equipment - FOC		641658	х			0006	Reserved	
		Х		Operations & Maintenance		541653	х			0006	Reserved	
			x	Operate Subcontr. Devel. 8 - BOC	Test Facil.	641659			х	0006	Reserved	
П			X	Operate Subcontr. Devel. 8 - IOC	Test Facil.	64165A			х	0006	Reserved	
		:	X	Operate Subcontr. Devel. 8 - FOC	Test Facil.	64165B			х	0006	Reserved	
			X	Maintain Subcontr. Devel.	& Test - BOC	64165C			х	0006	Reserved	
			x	Maintain Subcontr. Devel.	& Test - IOC	64165D			x	0006	Reserved	
П			×	Maintain Subcontr. Devel.	& Test - FOC	64165E			x	0006	Reserved	
		$\  \ $										
		$\  \ $										
	$\ $											
		wo	WORK B		X Services - FOC  Equipment  X Equipment - BOC  X Equipment - FOC  X Equipment - FOC  X Operations & Maintenance  X Operate Subcontr. Devel. & BOC  X Operate Subcontr. Devel. & FOC  X Maintain Subcontr. Devel. & Maintain Subcontr. Devel.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS  1 2 3 4 5 6  X Services - FOC  Equipment  X Equipment - BOC  X Equipment - TOC  X Equipment - FOC  Operations & Maintenance  X Operate Subcontr. Devel. & Test Facil.  - BOC  X Operate Subcontr. Devel. & Test Facil.  - IOC  X Operate Subcontr. Devel. & Test Facil.  - FOC	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS   WBS CODE NO.   1   2   3   4   5   6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS   WBS CODE NO.   SEGMENT	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS

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0.41	NO.	1 2				EAKDOWN STRUCTURE ELEMENTS/	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ſ		Х	П	T	T	Training		241700	Х	П			0017		
			x	1		Training Management		341710	х			١	0017		
				x		Training Management		441710	Х				0017		
			П	)	2	Training Management		541710	х				0017	• •	
ı					x	Manage All Training Activi	lties - BOC	641710	х				0017		
					x	Manage All Training Activi	ities - IOC	641711	х				0017		
					x	Manage All Training Activi	ities - FOC	641712	х				0017		
					х	Provide Segment Training 1	Plan - BOC	641713	х				0017		
					x	Provide Segment Training D	Plan - IOC	641714	х				0017	Reserved	
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	LINE NO.	1					EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
ſ		П	7	ĸ			User Training		341720	X	П	$\top$	0017		
İ			١	х			User Training		441720	х	П		0017		
		П	1		X		User Training		541720	X			0017		
						x	Accept Other Segment Input Prepare User Training Mate	ts and erials - BOC	641720	х			0017		
						X	Accept Other Segment Input Prepare User Training Mate	ts and erials - IOC	641721	Х			0017		
						х	Accept Other Segment Input Prepare User Training Mate		641722	Х			0017		
209						х	Train System Users and Gov Instructors - BOC	v't	641723	Х			0017		
						х	Train System Users and Gov Instructors - IOC	v't	641724	Х			0017		
						x	Train System Users and Gov Instructors - FOC	v't	641725	Х			0017		
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	LINE NO.	1];					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	SES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
Ī		T	7		Ť	Ť	Operator Training		341730	x		Ė	T	0017		
				х			Operator Training		441730	x				0017		
					х		Operator Training		541730	Х	İ			0017		
						x	Prepare and Deliver Operat Materials - BOC	tor Training	641730	х				0017		
						X	Prepare and Deliver Operat Materials - IOC	tor Training	641731	x				0017		
						х	Prepare and Deliver Operat Materials - FOC	tor Training	641732	х				0017		
						х	Train Segment and System ( Management Personnel - BOO	Operators and	641733	х				0017		
						x	Train Segment and System ( Management Personnel - 100		641734	х				0017		
						х	Train Segment and System (Management Personnel - FO		641735	х				0017		
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	LINE NO.	1 2					EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		$\prod$	]	X			Maintenance Training		341740	х	1	П	0017		
				x			Maintenance Training		441740	x			0017		
		$\  \ $			х		Maintenance Training		541740	х			0017		
						x	Prepare and Deliver Mainte Training Materials - BOC	enance	641740	Х			0017		
						х	Prepare and Deliver Mainte Training Materials - IOC	nance	641741	x			0017		
						х	Prepare and Deliver Mainte Training Materials - FOC	nance	641742	Х			0017		
211						x	Train All Segment Maintena	nce Personnel	641743	Х			0017		
					ı	x	Train All Segment Maintena	nce Personnel	641744	х			0017		
						х	Train All Segment Maintena - FOC	nce Personnel	641745	Х			0017		
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	NO.	V 1 2 1				EAKDOWN STRUCTURE ELEMENTS/	TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		Х				Operations & Maintenace (C	O&M)	241800	х	т т			0018		
			х	l		0 & M Management		341810	х				0018		
			x			0 & M Management		441810	х				0018		
١				Х		Provide 0 & M Project Mana	gement	541810	х				0018		
					х	Provide O & M Project Mana	gement - BOC	641810	х				0018		
l					х	Provide 0 & M Project Mana	gement - IOC	641811	x				0018		
1					x	Provide O & M Project Mana	gement - FOC	641812	х				0018		
l			ĺ	Х		Provide O & M Project Cont	rol	541811	X	Ш	l		0018		
					x	Provide O & M Project Cont	rol - BOC	641813	x			ļ	0018	:	
					x	Provide O & M Project Cont	rol - IOC	641814	х				0018	!	
					x	Provide O & M Project Cont	rol - FOC	641815	х				0018	Reserved	
		П	x	$\  \ $		Spares		341820	Х				0018		
l	İ		Х			Spares		441820	Х				0018		1
				х	1	Spares		541820	х				0018		
l		$\  \ $			х	Provide Spares Planning -	ВОС	641820	х				0018		
					х	Provide Spares Planning -	IOC	641821	х				0018		
		П			х	Provide Spares Planning -	FOC	641822	х				0018		
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LINE NO.		\ [2]				EAKDOWN STRUCTURE ELEMENTS.	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	Γ	П	Х	T	Ī	Software Maintenance		341830	x		П	 0018		
						Software Maintenance		441830	х			0018	ĺ	
į				>		System Engineering		541830	х			0018		
		П			х	System Engineering - BOC		641830	х			0018		
				X		Software Management		541831	х	П		0018		
					x	Software Management - IOC		641834	х	Н		0018		
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	LINE NO.	1 :	w(			EAKDOWN STRUCTURE ELEMENTS,	/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRA LINE ITEM	CT	SOW PARA. NO.	SPECIFICATION NUMBER
				2	ζ	Problem Analysis, Error Co Update Documentation	orrection and	541832	х	1			0018			
					Х	Problem Analysis, Error Co Update Documentation - BO	orrection and C	641836	x				0018			
					х	Problem Analysis, Error Co Update Documentation - 100	orrection and C	641837	х				0018			
					X	Problem Analysis, Error Co Update Documentation - FO	orrection and C	641838	Х				0018			
İ				2	2	Test		541833			х		0018	1		
31.6					Х	Test Software Changes - Be	ос	641839			х		0018	l	These tes	t charges
^					х	Test Software Changes - Id	ос	64183A			х		0018	Ì	budgeted WBS 54183	under
	İ				х	Test Software Changes - Fo	ос	64183B			х		0018	J	<b>"B</b> 5 5 1103	
				X		Maintain Commercial Softwa	are Products	541834	Х				0018		No Labor	
					x	Maintain Commercial Softwa	re Products	64183C	X				0018			
					х	Maintain Commercial Softwa - IOC	are Products	64183D	X				0018			
L		L	Ц	L	Ц							Ш				



NO.				VORK BREAKDOWN STRUCTURE INDEX						RFP NO. <u>82-B-015</u> CONTRACT NO		DATE: 2-24-82
	1 2				AKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		П		х	Maintain Commercial Software Products	64183E	1			0018		
		X X			Hardware Maintenance	341840	Х			0018		
					Hardware Maintenance	441840	Х			0018		
			X		Problem Analysis, Error Correction and Update Documentation - BOC	541840	х			0018		
				X	Problem Analysis, Error Correction and Update Documentation - IOC	641840	х			0018		
				X	Problem Analysis, Error Correction and Update Documentation - FOC	641841	х			0018		
,				X	Problem Analysis, Error Correction and Update Documentation	641842	х			0018		
			х		Maintain Commercial Hardware	541841	Х			0018	No Labor	
j				х	Maintain Commercial Hardware - BOC	641843	X			0018		
ı				Х	Maintain Commercial Hardware - IOC	641844	Х			0018		
				Х	Maintain Commercial Hardware - FOC	641845	Х			0018		
										,		
			X		X X X X X	AX  - FOC Hardware Maintenance  Hardware Maintenance  Problem Analysis, Error Correction and Update Documentation - BOC  X Problem Analysis, Error Correction and Update Documentation - IOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation  X Maintain Commercial Hardware  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - IOC	AX  Hardware Maintenance  Hardware Maintenance  X Problem Analysis, Error Correction and Update Documentation - BOC  X Problem Analysis, Error Correction and Update Documentation - IOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation  X Maintain Commercial Hardware  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - IOC  441840  641841	AX  Hardware Maintenance  X Hardware Maintenance  X Problem Analysis, Error Correction and Update Documentation - BOC  X Problem Analysis, Error Correction and Update Documentation - IOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation  X Maintain Commercial Hardware  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC	The Foc Hardware Maintenance 341840 X  Hardware Maintenance 441840 X  Problem Analysis, Error Correction 541840 X  Problem Analysis, Error Correction 641840 X  Problem Analysis, Error Correction 641841 X  Problem Analysis, Error Correction 641841 X  Problem Analysis, Error Correction 641842 X  Problem Analysis, Error Correction 641842 X  Maintain Commercial Hardware 541841 X  Maintain Commercial Hardware BOC 641843 X  Maintain Commercial Hardware - IOC 641844 X	AX  Hardware Maintenance  X Hardware Maintenance  X Problem Analysis, Error Correction and Update Documentation - BOC  X Problem Analysis, Error Correction and Update Documentation - IOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation  X Maintain Commercial Hardware  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC  X Maintain Commercial Hardware - BOC	X Hardware Maintenance 341840 X 0018  X Hardware Maintenance 441840 X 0018  X Problem Analysis, Error Correction and Update Documentation - BOC  X Problem Analysis, Error Correction and Update Documentation - IOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation - FOC  X Problem Analysis, Error Correction and Update Documentation  X Problem Analysis, Error Correction 641842 X 0018  X Maintain Commercial Hardware 541841 X 0018  X Maintain Commercial Hardware - BOC 641843 X 0018  X Maintain Commercial Hardware - IOC 641844 X 0018	The state of the s

		WO	RK	BR	EΑ	KΕ	OOWN STRUCTURE INDEX	PROGRAM  NPIC D/C SEGMENT				RFP NO. 82-B CONTRACT N		DATE: 2-24-82	
	LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/						TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
217	LINE	1	2 :		<u>5</u>		Travel and Living Travel and Living Travel and Living Provide Travel and Living for 0 & M Personnel - BOC Provide Travel and Living for 0 & M Personnel - IOC	Expenses	CODE NO.  341870  441870  541870  641870	X X X X DES/DE		TEST	LINE	PARA.	